

# MANIHIKI AIRPORT IMPROVEMENT DESIGN



**DRAWING TITLE No.**  
202401-MHX-CV-0000

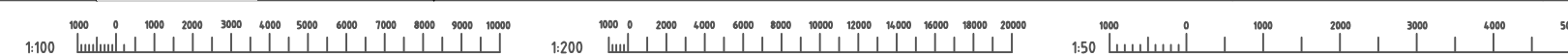
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LOCALITY PLAN DRAWING REGISTER

**CIVIL DRAWINGS**

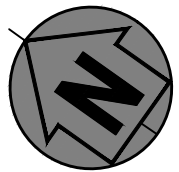
- 202401-MHX-CV-2000 GENERAL LAYOUT
- 202401-MHX-CV-2001 TOPOGRAPHIC SURVEY
- 202401-MHX-CV-2002 AIRFIELD CLEARANCE PLAN
- 202401-MHX-CV-2003 LONG SECTION RUNWAY
- 202401-MHX-CV-2004 LONG SECTION RUNWAY
- 202401-MHX-CV-2005 LONG SECTION RUNWAY
- 202401-MHX-CV-2006 LONG SECTION APRON
- 202401-MHX-CV-2007 CROSS SECTION RUNWAY
- 202401-MHX-CV-2008 CROSS SECTION RUNWAY
- 202401-MHX-CV-2009 CROSS SECTION RUNWAY
- 202401-MHX-CV-2010 CROSS SECTION RUNWAY
- 202401-MHX-CV-2011 CROSS SECTION RUNWAY
- 202401-MHX-CV-2012 CROSS SECTION RUNWAY
- 202401-MHX-CV-2013 CROSS SECTION RUNWAY
- 202401-MHX-CV-2014 CROSS SECTION RUNWAY
- 202401-MHX-CV-2015 CROSS SECTION RUNWAY
- 202401-MHX-CV-2016 CROSS SECTION RUNWAY
- 202401-MHX-CV-2017 CROSS SECTION RUNWAY
- 202401-MHX-CV-2018 CROSS SECTION RUNWAY
- 202401-MHX-CV-2019 CROSS SECTION APRON
- 202401-MHX-CV-2020 CROSS SECTION APRON
- 202401-MHX-CV-2021 TYPICAL CROSS SECTION RUNWAY
- 202401-MHX-CV-2022 TYPICAL CROSS SECTION APRON
- 202401-MHX-CV-2023 WINDSOCK & MARKER BOARD DETAILS
- 202401-MHX-CV-2024 TYPICAL QUARRY EXCAVATION PLAN
- 202401-MHX-CV-2025 RUNWAY ENDS AIRCRAFT TRACKING
- 202401-MHX-CV-2026 RUNWAY LINE MARKING PLAN
- 202401-MHX-CV-2027 RUNWAY LINE MARKING DETAILS
- 202401-MHX-CV-2028 SOAKPIT DETAIL

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES	PLANNING AND PROJECTS DIVISION	PROJECT TITLE	DESIGNED:	DATE:	CHECKED:	DATE:
					 <b>Infrastructure Cook Islands</b> <small>PO Box 1000 Main Road Arorangi Rarotonga, Cook Islands PH: 20321 Fax: 24321 Web: www.icl.gov.ck</small>	<b>MANIHIKI AIRPORT IMPROVEMENT</b>	PPP	20.02.24	PPP	26.02.24
						<b>LOCALITY PLAN DRAWING REGISTER</b>	PPP	20.02.24	ICI SECRETARY	26.02.24
							CLIENT NAME:		DWG No.	SHT No.
							MIG		202401-MHX-CV-0000	S01 OF S30

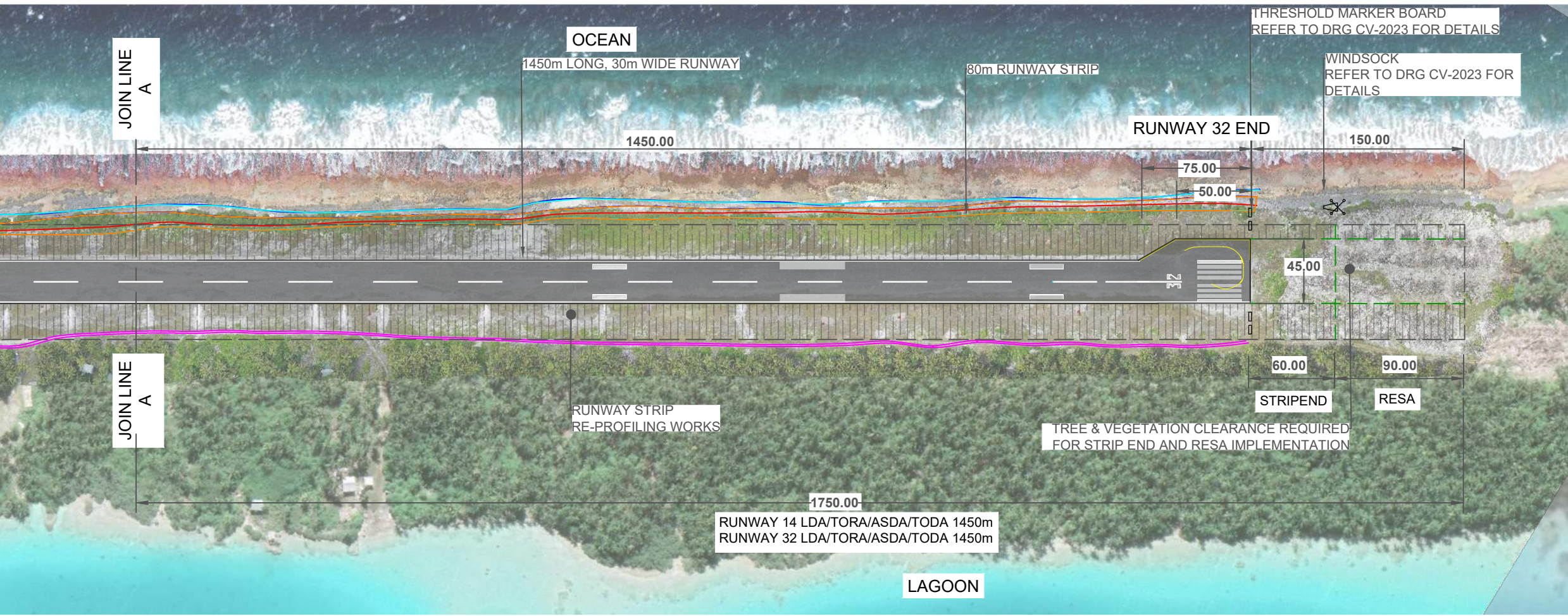
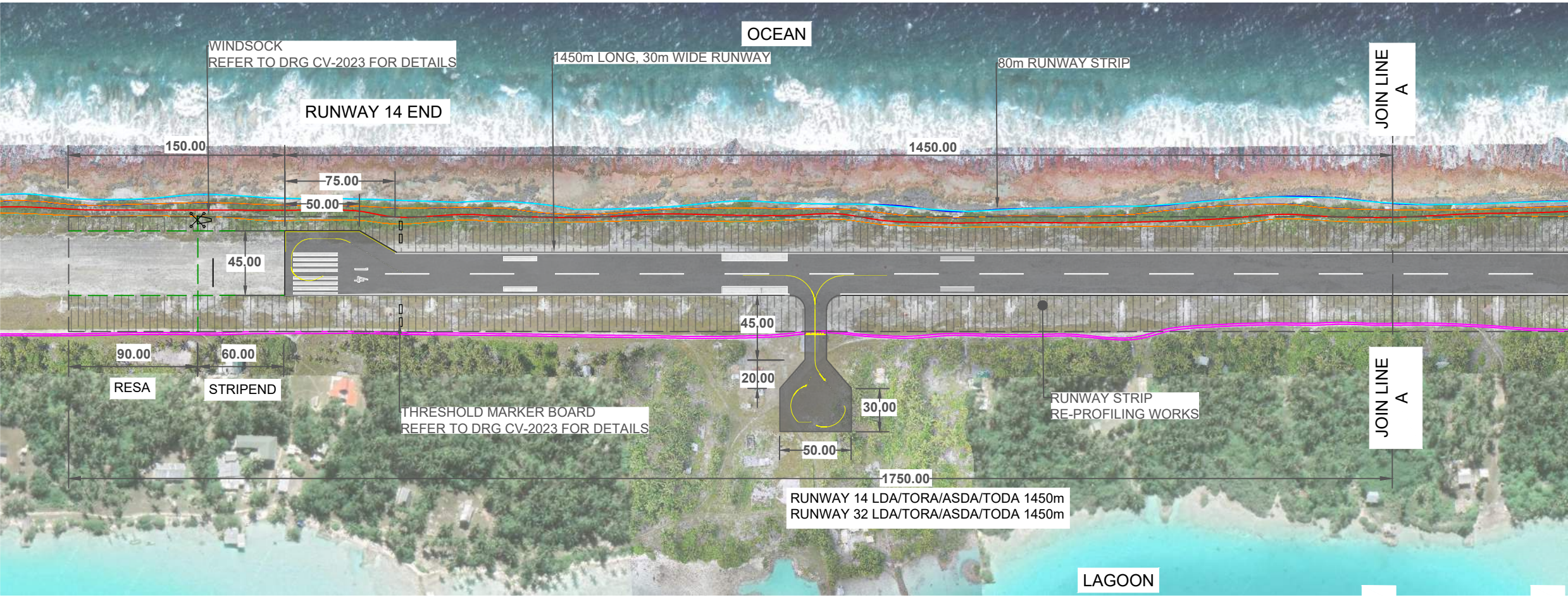






**LEGEND**

- RUNWAY —————
- RUNWAY STRIP - - - - -
- TAXIWAY & APRON —————
- STRIP END & RESA - - - - -
- EXISTING ROAD —————
- TOP OF BANK —————
- HIGH WATER MARK —————
- COASTAL BUND —————



**NOTES**

- |                             |               |
|-----------------------------|---------------|
| 1. RUNWAY WIDTH             | 30.0m         |
| 2. RUNWAY LENGTH            | 1450.0m       |
| 3. RUNWAY STRIP WIDTH       | 80.0m         |
| 4. RUNWAY STRIP LENGTH      | 1750.0m       |
| 5. END THRESHOLD            | 60.0m         |
| 6. RESA                     | 90.0m         |
| 7. TAXIWAY WIDTH            | 15.0m         |
| 8. PARKING HARDSTAND        | 50.0m x 50.0m |
| 9. TEMPORARY RUNWAY WIDTH   | 30.0m         |
| 10. TEMPORARY RUNWAY LENGTH | 1200.0m       |

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES

**PLANNING AND PROJECTS DIVISION**

**Infrastructure Cook Islands**

PO Box 1111  
Main Road Arorangi  
Rarotonga, Cook Islands  
PH: 20321  
Fax: 24321  
Web: www.icl.gov.ck

PROJECT TITLE  
**MANHIKI AIRPORT IMPROVEMENT**

DRAWING TITLE  
**AIRPORT GENERAL LAYOUT**

DESIGNED: **PPP**

DRAWN: **PPP**

CLIENT NAME:  
**MIG**

DATE: **20.02.24**

DATE: **20.02.24**

SCALES:  
**1:3000**

CHECKED: **PPP**

APPROVED: **ICI SECRETARY**

DWG No.  
**202401-MHX-CV-3000**

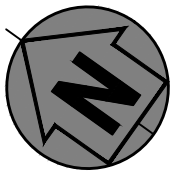
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DATE: **26.02.24**

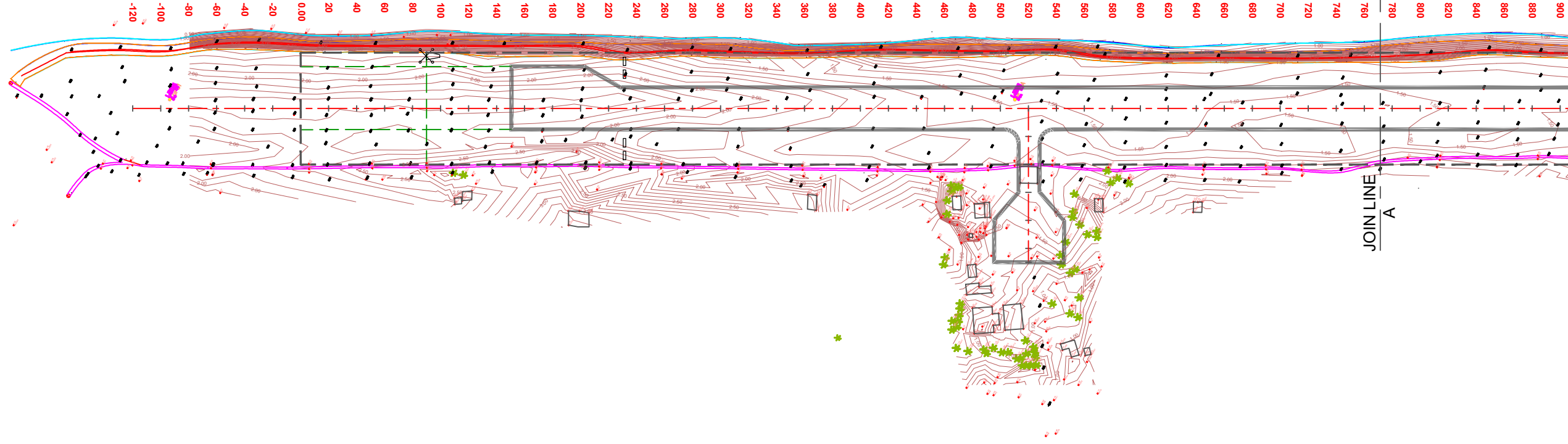
SHT No.  
**S02 OF S30**







RUNWAY 14 END

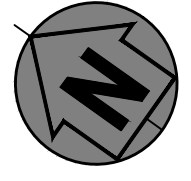


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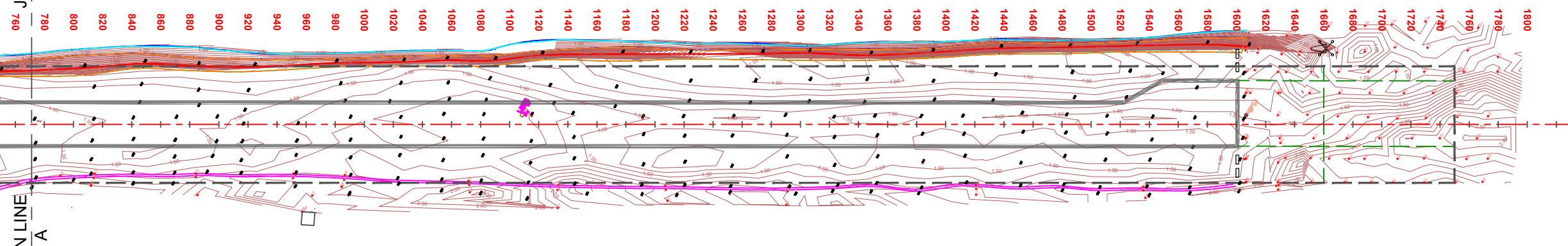
- RUNWAY ———
- RUNWAY STRIP - - - - -
- TAXIWAY & APRON ———
- STRIP END & RESA - - - - -
- EXISTING ROAD ———
- TOP OF BANK ———
- HIGH WATER MARK ———
- COASTAL BUND ———
- RUNWAY CENTRELINE - · - · -

**NOTES**

1. TOPOGRAPHIC SURVEY FROM ICI
2. ORIGIN OF BEARINGS S018232C GPSI - GPSII
3. ICI TO ENGAGE TO SURVEYOR TO GROUND TRUTH POINTS & SET OUT AIRFIELD FOOTPRINT



RUNWAY 32 END



**NOTES**

1. RUNWAY WIDTH 30.0m
2. RUNWAY LENGTH 1450.0m
3. RUNWAY STRIP WIDTH 80.0m
4. RUNWAY STRIP LENGTH 1750.0m
5. END THRESHOLD 60.0m
6. RESA 90.0m
7. TAXIWAY WIDTH 15.0m
8. PARKING HARDSTAND 50.0m x 50.0m
9. TEMPORARY RUNWAY WIDTH 30.0m
10. TEMPORARY RUNWAY LENGTH 1200.0m

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES

**PLANNING AND PROJECTS DIVISION**

**Infrastructure Cook Islands**

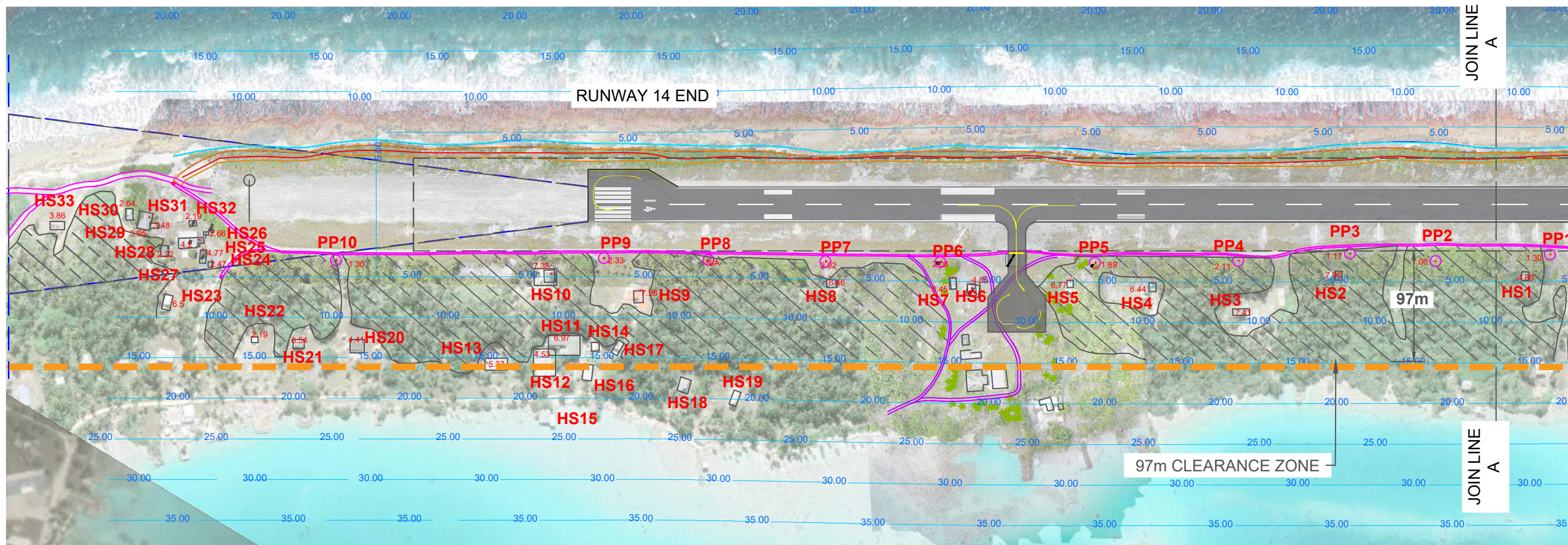
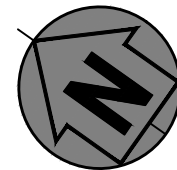
PO Box 1000  
Main Road Arorangi  
Rarotonga, Cook Islands  
PH: 20321  
Fax: 24321  
Web: www.ici.gov.ck

PROJECT TITLE	<b>MANHIKI AIRPORT IMPROVEMENT</b>
DRAWING TITLE	<b>TOPOGRAPHIC SURVEY</b>

DESIGNED:	PPP	DATE:	20.02.24	CHECKED:	PPP	DATE:	26.02.24
DRAWN:	PPP	DATE:	20.02.24	APPROVED:	ICI SECRETARY	DATE:	26.02.24
CLIENT NAME:	MIG	SCALES:	1:3000	DWG No.	202401-MHX-CV-2001	SHT No.	S03 OF S30

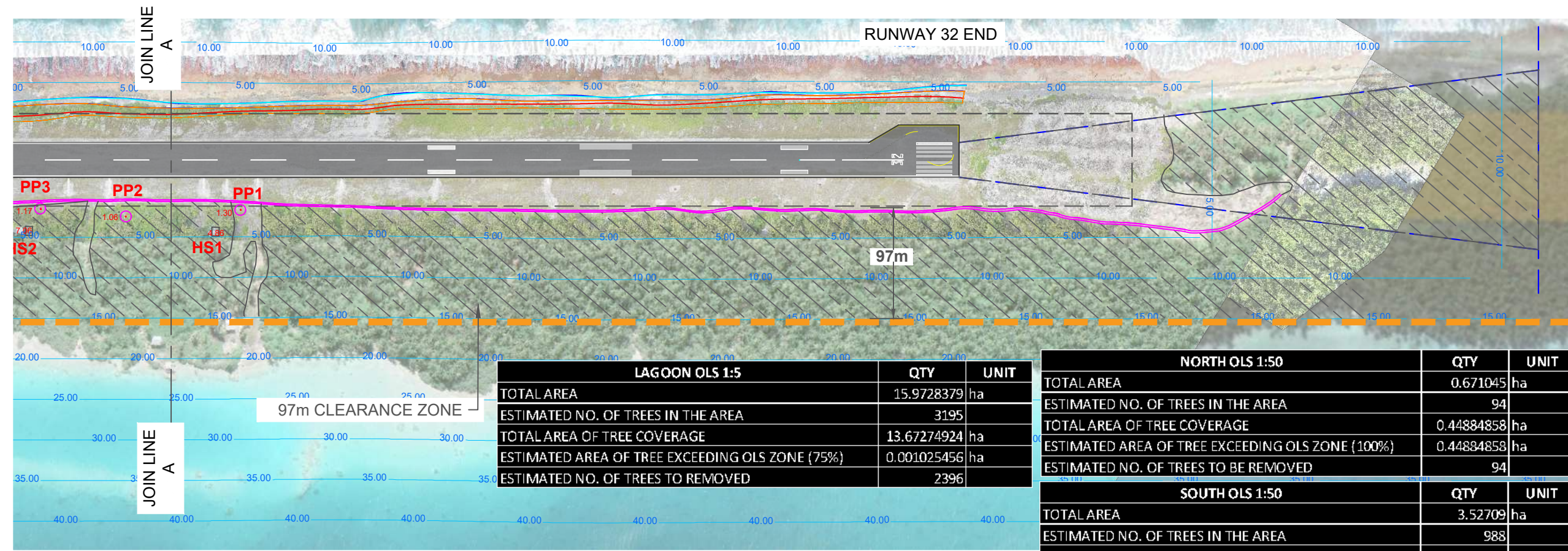






- LEGEND**
- RUNWAY
  - 80m STRIP
  - TAXIWAY & APRON
  - STRIP END & RESA
  - EXISTING ROAD
  - TOP OF BANK
  - HIGH WATER MARK
  - COASTAL BUND
  - OLS HEIGHT 5.0m CONTOUR
  - INDICATIVE TREE CLEARANCE
  - PTOPOSED 30m LAGOON SIDE CLEARANCE
  - INFRASTRUCTURE HEIGHTS
  - OLS CLEARANCE LIMIT
  - POWERPOLES

- NOTES**
1. NZ CAA AC139-6, SECTION 4 WAS IMPLEMENTED TO DEVELOP THE OBSTACLE LIMITATION SURFACES.
  2. TREE CLEARANCE AND TREE TOPPING TO ACHIEVE OBSTRUCTION-FREE HEIGHT. ICI TO ENSURE APPROPRIATE SURVEYING CAPABILITY IS ON SITE TO CONFIRM APPROACH AND TRANSITIONAL SIDE SLOPE COMPLIANCE FOLLOWING CLEARANCE ACTIVITY.
  3. ICI TO GAIN MoT APPROVAL. REFER TO DRAWING 202401-MHX-CV-12000 FOR MORE DETAILS.
  4. REFER TO THE TABLE BELOW FOR INDICATIVE AREAS OF VEGETATION AND TREES TO BE CLEARED AS PER OLS RESTRICTIONS. PLEASE NOTE THAT THESE FIGURES ARE INDICATIVE AND WILL NECESSITATE SURVEY WORKS TO CONFIRM THE HEIGHTS OF INFRASTRUCTURE AND TREES ON THE ISLAND.
  5. WHERE RESIDENTIAL INFRASTRUCTURE EXCEEDS TO OLS CLEARANCES, ICI PROPOSE THE INSTALLATION OF BEACONS ON SAID INFRASTRUCTURE. ICI & MoT TO DISCUSS NOTAMS.
  6. ICI & MIG TO CONFIRM ON THE DISPOSAL OF TREE DEBRIS.
  7. CONSTRUCTION WORK TO BE HALTED AND AN EMERGENCY RUNWAY PREPARED (COMPACTED TO SUITABLE STANDARDS) IN THE EVENT OF AN EMERGENCY MEDICAL REFERRAL TO RAROTONGA. ALL OTHER TIMES, THE RUNWAY WILL BE CLOSED DURING THIS STAGE OF WORK.
  8. REFER TO DESIGN DOCUMENT 240513 OLS CLEARANCE INFORMATION FOR DETAILS ON BUILDING HEIGHTS AND CLEARANCES.



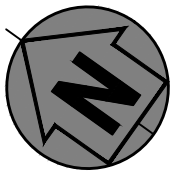
LAGOON OLS 1:5		QTY	UNIT
TOTAL AREA		15.9728379	ha
ESTIMATED NO. OF TREES IN THE AREA		3195	
TOTAL AREA OF TREE COVERAGE		13.67274924	ha
ESTIMATED AREA OF TREE EXCEEDING OLS ZONE (75%)		0.001025456	ha
ESTIMATED NO. OF TREES TO BE REMOVED		2396	

NORTH OLS 1:50		QTY	UNIT
TOTAL AREA		0.671045	ha
ESTIMATED NO. OF TREES IN THE AREA		94	
TOTAL AREA OF TREE COVERAGE		0.44884858	ha
ESTIMATED AREA OF TREE EXCEEDING OLS ZONE (100%)		0.44884858	ha
ESTIMATED NO. OF TREES TO BE REMOVED		94	
SOUTH OLS 1:50		QTY	UNIT
TOTAL AREA		3.52709	ha
ESTIMATED NO. OF TREES IN THE AREA		988	
TOTAL AREA OF TREE COVERAGE		3.4565482	ha
ESTIMATED AREA OF TREE EXCEEDING OLS ZONE (100%)		3.4565482	ha
ESTIMATED NO. OF TREES TO BE REMOVED		988	

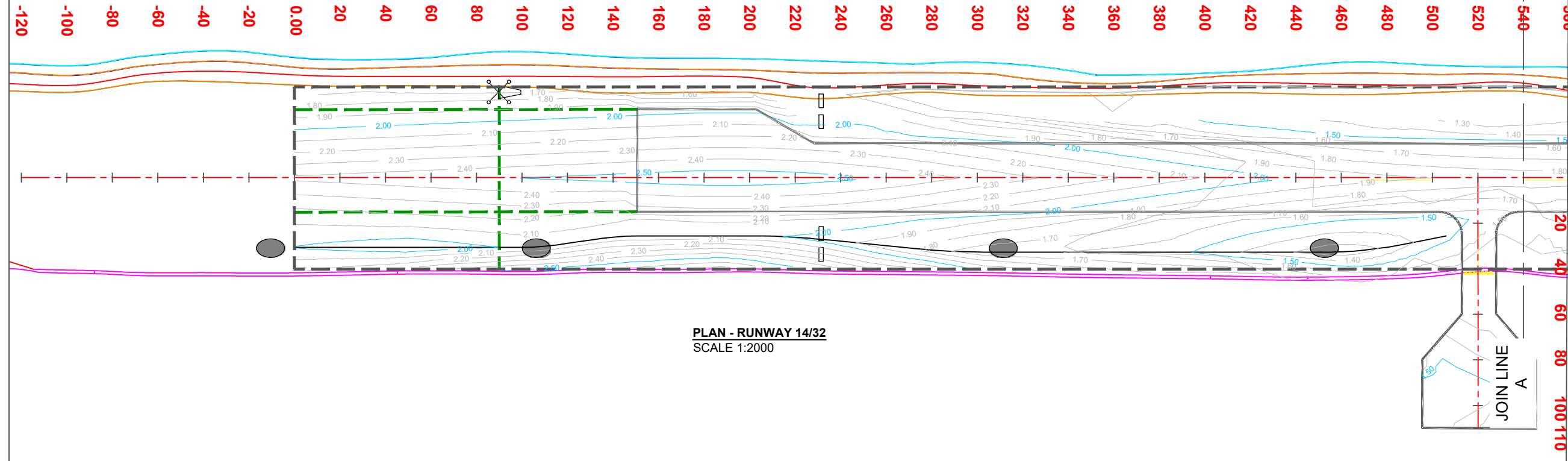
**NOT FOR CONSTRUCTION**

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REVISION	BY	APPD	DATE	NOTES																											





RUNWAY 14 END

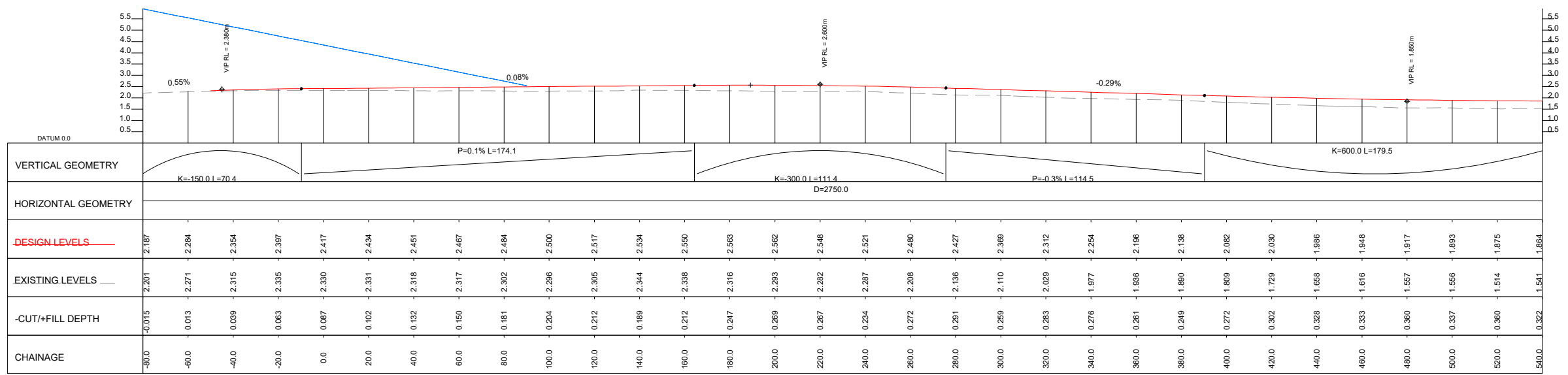


**LEGEND**

- RUNWAY
- 80m STRIP
- TAXIWAY & APRON
- STRIP END & RESA
- EXISTING ROAD
- TOP OF BANK
- HIGH WATER MARK
- COASTAL BUND
- RUNWAY, TAXIWAY & APRON CENTRELINE
- MAJOR CONTOUR LINE AT 0.5m INTERVAL
- MINOR CONTOUR LINE AT 0.1m INTERVAL

**LEGEND**

- DESIGN SURFACE
- EXISTING SURFACE
- OLS



**RUNWAY 14/32 CENTRELINE PROFILE**  
 A1 HORIZONTAL SCALE 1:2000  
 A1 VERTICAL SCALE 1:200

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES

**PLANNING AND PROJECTS DIVISION**  
**Infrastructure Cook Islands**  
 PO Box 1111  
 Main Road Arorangi  
 Rarotonga, Cook Islands  
 PH: 20321  
 Fax: 24321  
 Web: www.icl.gov.ck

**PROJECT TITLE**  
 MANHIKI AIRPORT IMPROVEMENT

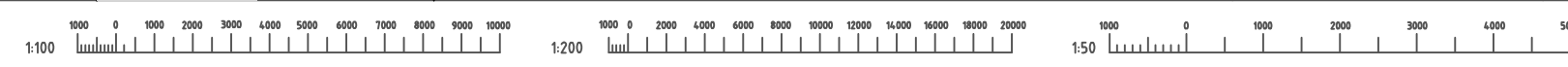
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 LONG SECTION - RUNWAY SHEET 1

**DESIGNED:** PPP  
**DRAWN:** PPP  
**CLIENT NAME:** MIG

**DATE:** 20.02.24  
**DATE:** 20.02.24  
**SCALES:** AS SHOWN

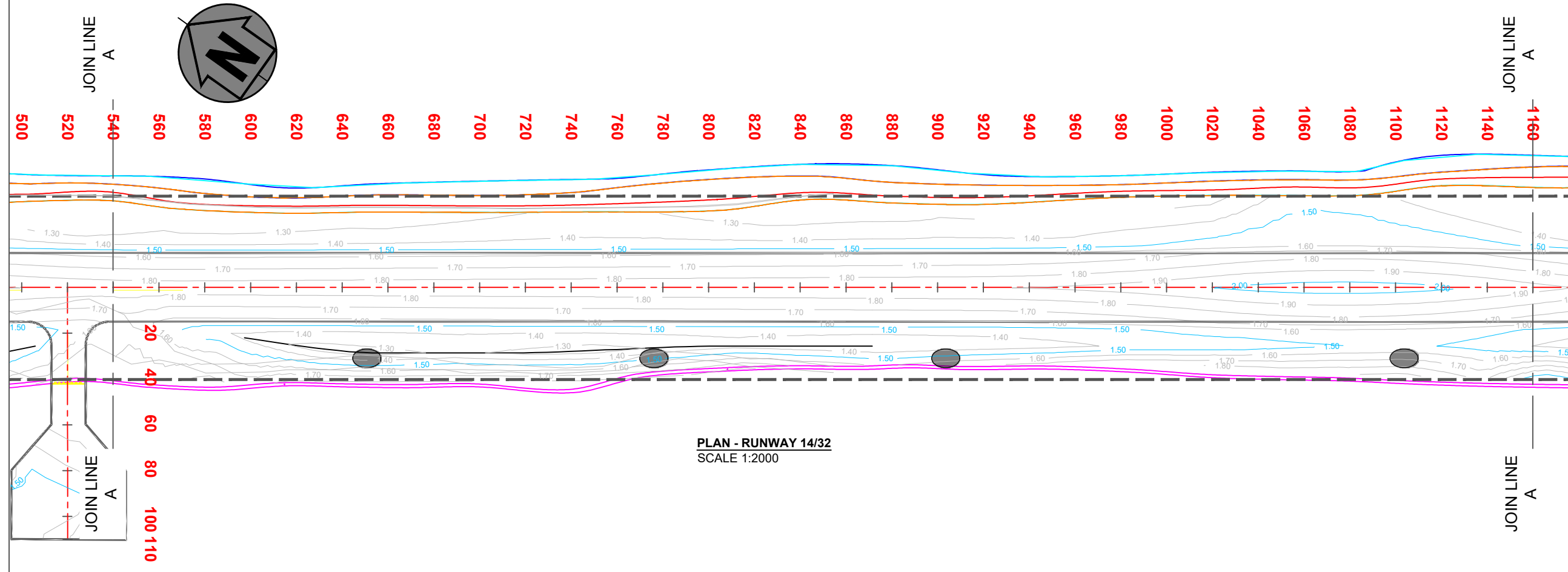
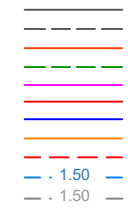
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**APPROVED:** ICI SECRETARY  
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**DATE:** 26.02.24  
**DATE:** 26.02.24  
**SHT No.:** S05 OF S30



**LEGEND**

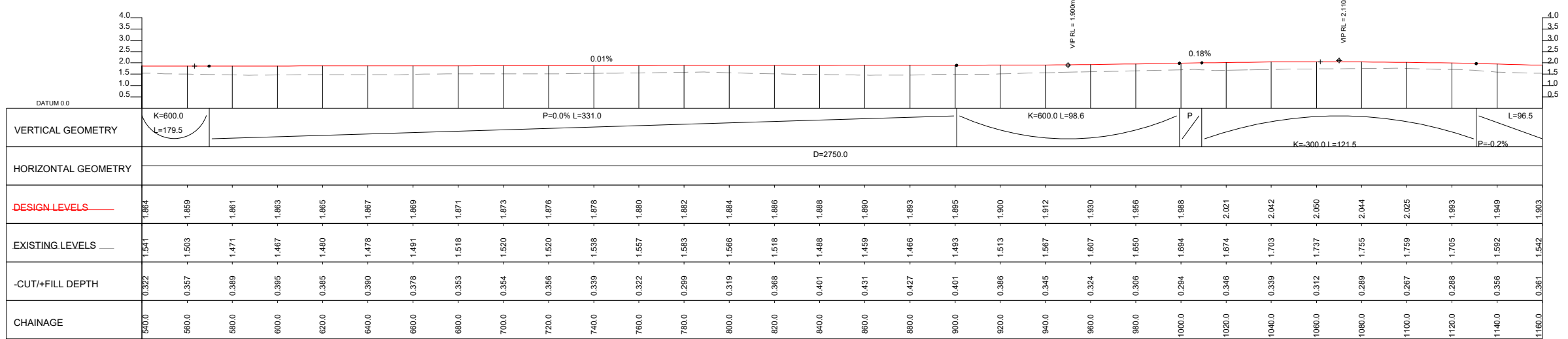
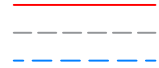
- RUNWAY
- 80m STRIP
- TAXIWAY & APRON
- STRIP END & RESA
- EXISTING ROAD
- TOP OF BANK
- HIGH WATER MARK
- COASTAL BUND
- RUNWAY, TAXIWAY & APRON CENTRELINE
- MAJOR CONTOUR LINE AT 0.5m INTERVAL
- MINOR CONTOUR LINE AT 0.1m INTERVAL



**PLAN - RUNWAY 14/32**  
SCALE 1:2000

**LEGEND**

- DESIGN SURFACE
- EXISTING SURFACE
- OLS

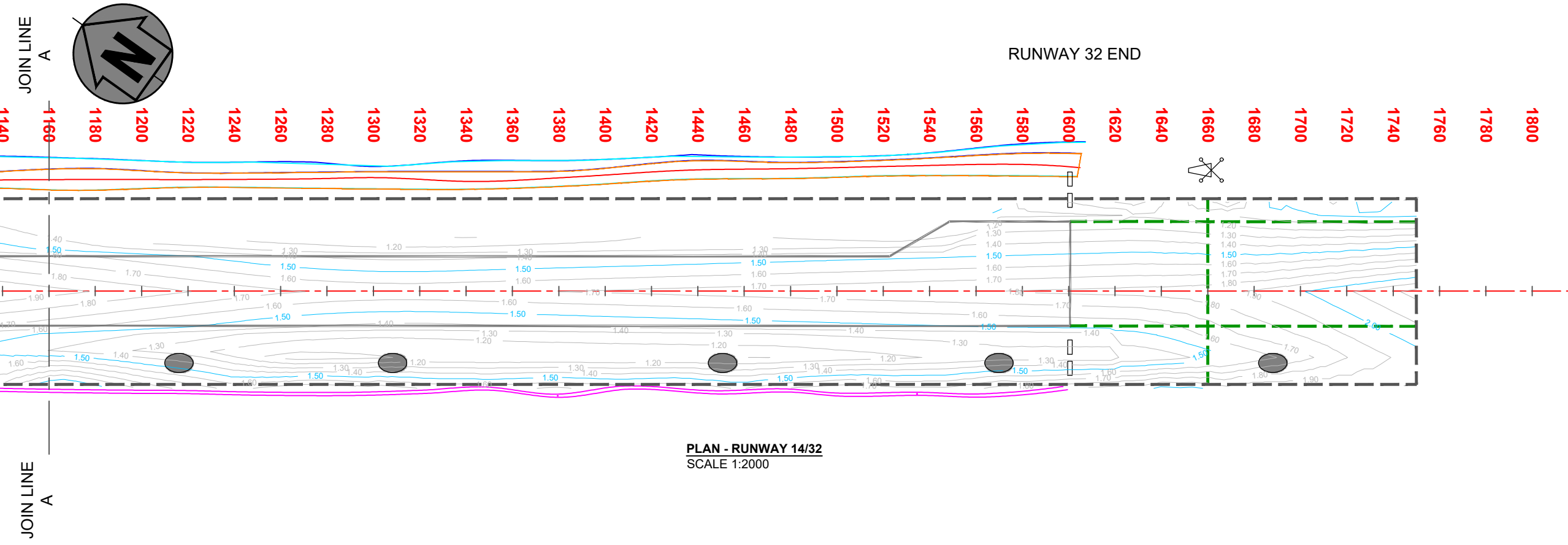


**RUNWAY 14/32 CENTRELINE PROFILE**  
A1 HORIZONTAL SCALE 1:2000  
A1 VERTICAL SCALE 1:200

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES	 <b>PLANNING AND PROJECTS DIVISION</b> <b>Infrastructure Cook Islands</b> PO Box 1111 Main Road Arorangi Rarotonga, Cook Islands PH: 20321 Fax: 24321 Web: www.icl.gov.ck	PROJECT TITLE	DESIGNED:	DATE:	CHECKED:	DATE:
							<b>MANHIKI AIRPORT IMPROVEMENT</b>	<b>PPP</b>	<b>20.02.24</b>	<b>PPP</b>
						<b>LONG SECTION - RUNWAY SHEET 2</b>	<b>PPP</b>	<b>20.02.24</b>	<b>IC SECRETARY</b>	<b>26.02.24</b>
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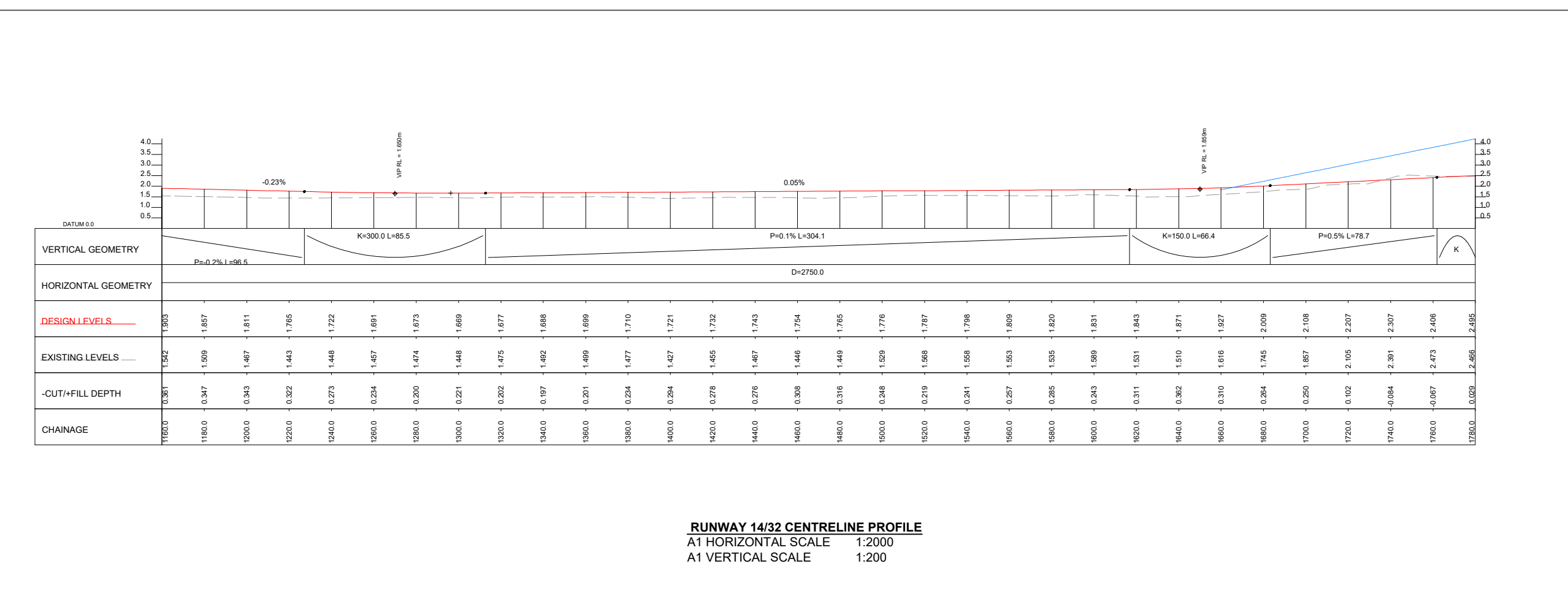




**LEGEND**

- RUNWAY 80m STRIP
- TAXIWAY & APRON STRIP END & RESA
- EXISTING ROAD
- TOP OF BANK
- HIGH WATER MARK
- COASTAL BUND
- RUNWAY, TAXIWAY & APRON CENTRELINE
- MAJOR CONTOUR LINE AT 0.5m INTERVAL
- MINOR CONTOUR LINE AT 0.1m INTERVAL

**PLAN - RUNWAY 14/32**  
SCALE 1:2000



**LEGEND**

- DESIGN SURFACE
- EXISTING SURFACE
- OLS

**RUNWAY 14/32 CENTRELINE PROFILE**  
A1 HORIZONTAL SCALE 1:2000  
A1 VERTICAL SCALE 1:200

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REVISION	BY	APPD	DATE	NOTES

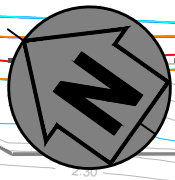
**PLANNING AND PROJECTS DIVISION**  
**Infrastructure Cook Islands**  
PO Box 1000  
Main Road Arorangi  
Rarotonga, Cook Islands  
PH: 20321  
Fax: 24321  
Web: www.icl.gov.ck

PROJECT TITLE  
**MANHIKI AIRPORT IMPROVEMENT**

DRAWING TITLE  
**LONG SECTION - RUNWAY SHEET 3**

DESIGNED: <b>PPP</b>	DATE: <b>20.02.24</b>	CHECKED: <b>PPP</b>	DATE: <b>26.02.24</b>
DRAWN: <b>PPP</b>	DATE: <b>20.02.24</b>	APPROVED: <b>ICI SECRETARY</b>	DATE: <b>26.02.24</b>
CLIENT NAME: <b>MIG</b>	SCALES: <b>AS SHOWN</b>	DWG No. <b>202401-MHX-CV-2005</b>	SHT No. <b>S07 OF S30</b>

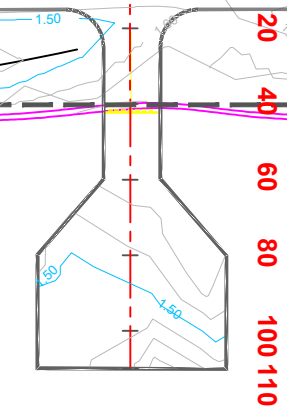




RUNWAY 32 END

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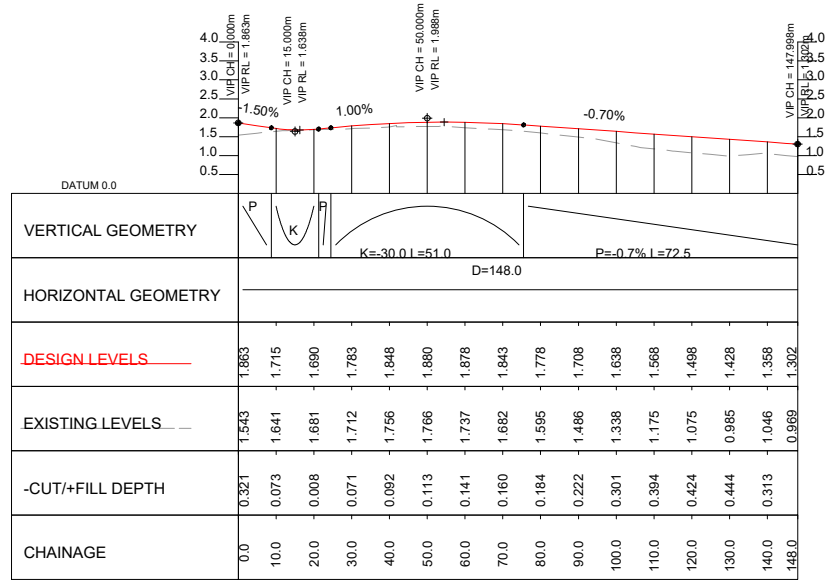
RUNWAY	—
80m STRIP	—
TAXIWAY & APRON	—
STRIP END & RESA	—
EXISTING ROAD	—
TOP OF BANK	—
HIGH WATER MARK	—
COASTAL BUND	—
RUNWAY, TAXIWAY & APRON CENTRELINE	—
MAJOR CONTOUR LINE AT 0.5m INTERVAL	—
MINOR CONTOUR LINE AT 0.1m INTERVAL	—



**PLAN - RUNWAY 14/32**  
SCALE 1:2000

**LEGEND**

DESIGN SURFACE	—
EXISTING SURFACE	—
OLS	—



**RUNWAY 14/32 CENTRELINE PROFILE**  
A1 HORIZONTAL SCALE 1:2000  
A1 VERTICAL SCALE 1:200

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES

**PLANNING AND PROJECTS DIVISION**  
**Infrastructure Cook Islands**  
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Fax: 24321  
Web: www.icl.gov.ck

**PROJECT TITLE**  
MANHIKI AIRPORT IMPROVEMENT

**DRAWING TITLE**  
LONG SECTION - APRON

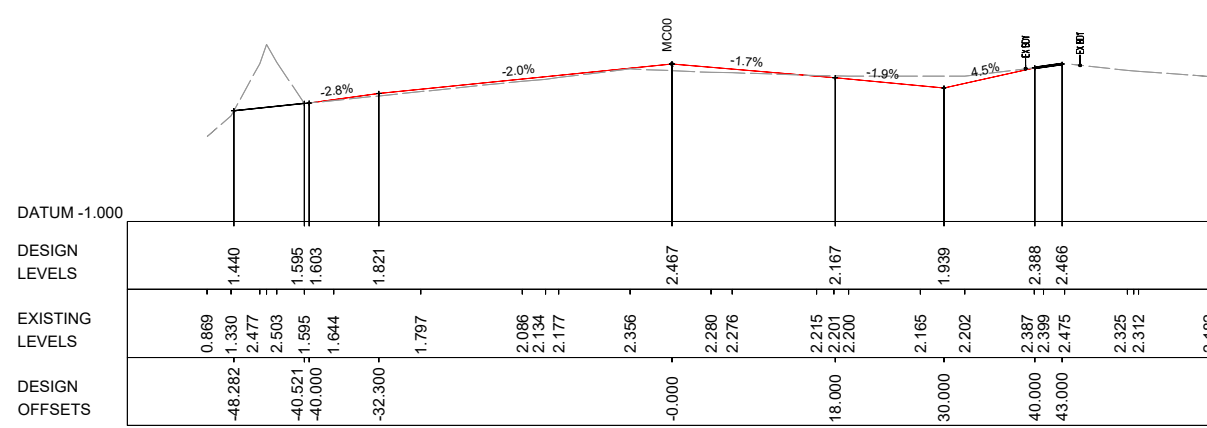
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CLIENT NAME: <b>MIG</b>	SCALES: <b>AS SHOWN</b>	DWG No. <b>202401-MHX-CV-2006</b>	SHT No. <b>S08 OF S30</b>



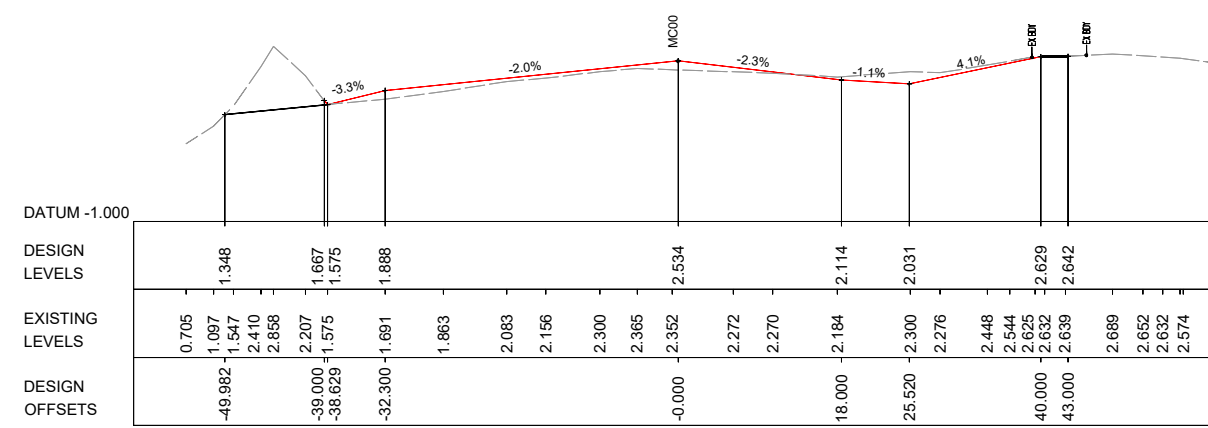


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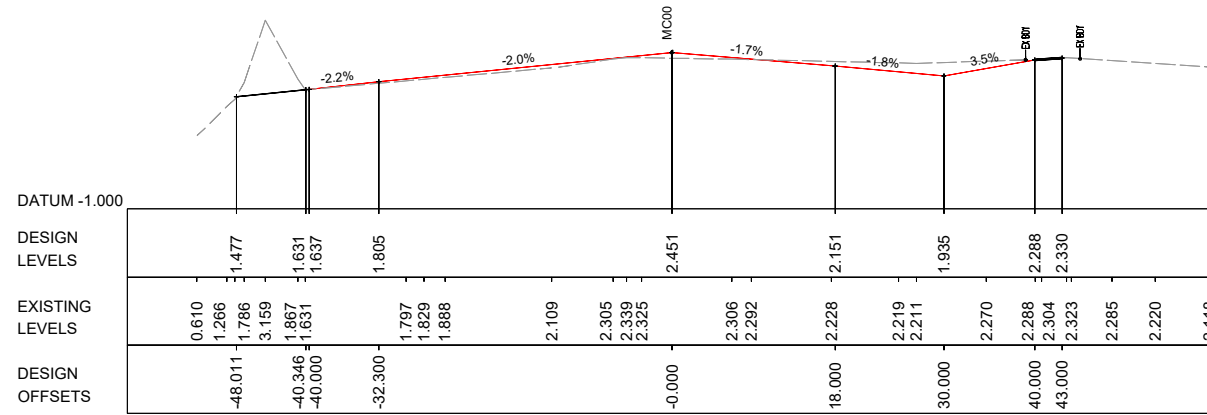
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 EXISTING SURFACE ----



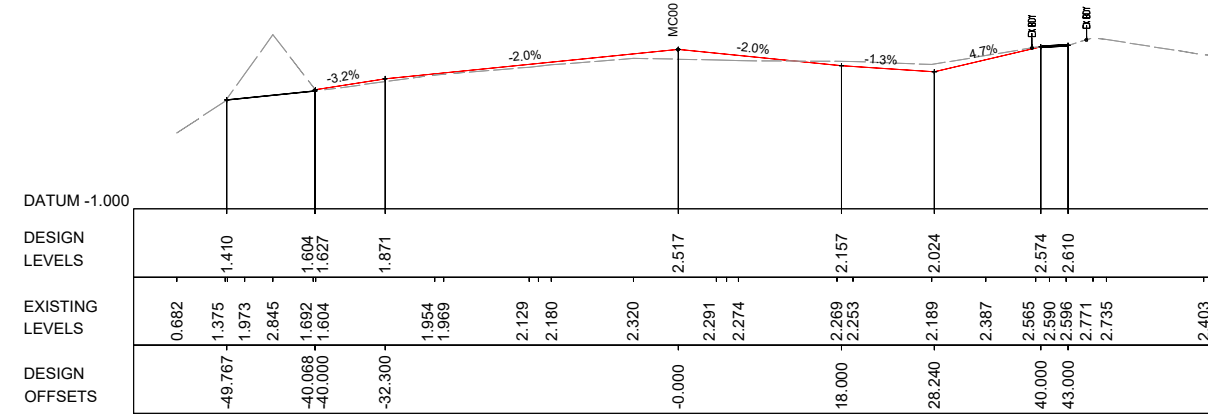
CH 60.0



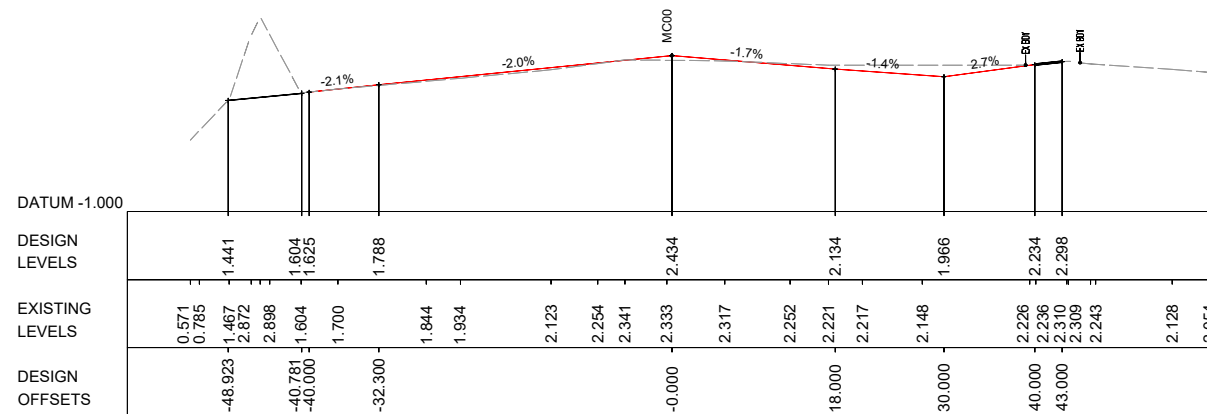
CH 140.0



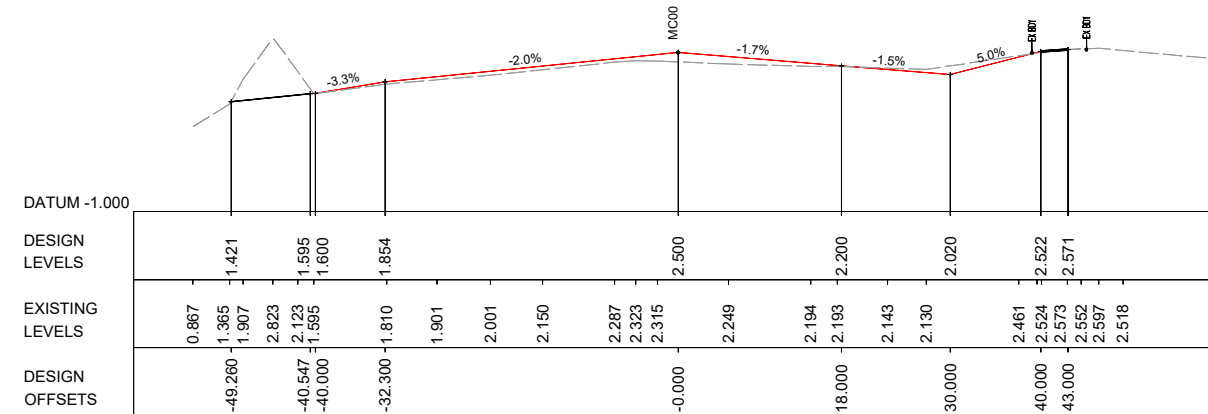
CH 40.0



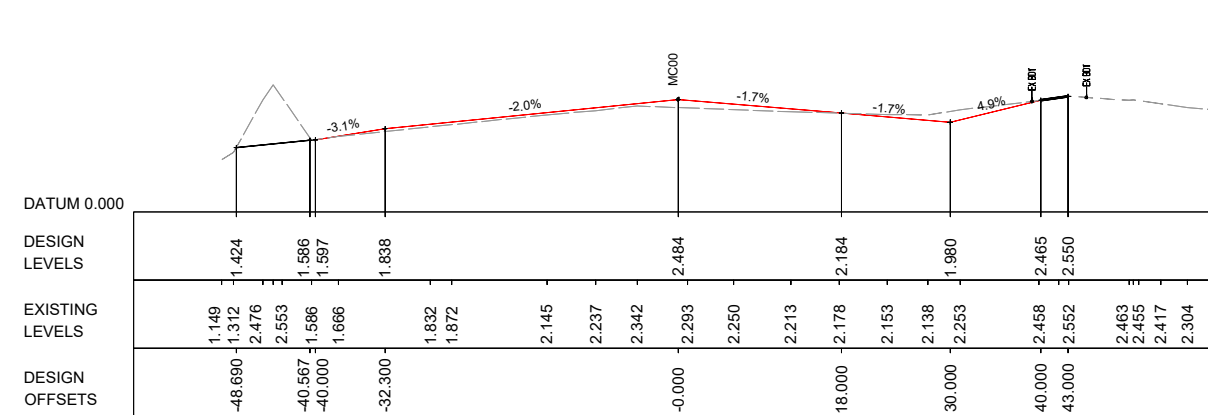
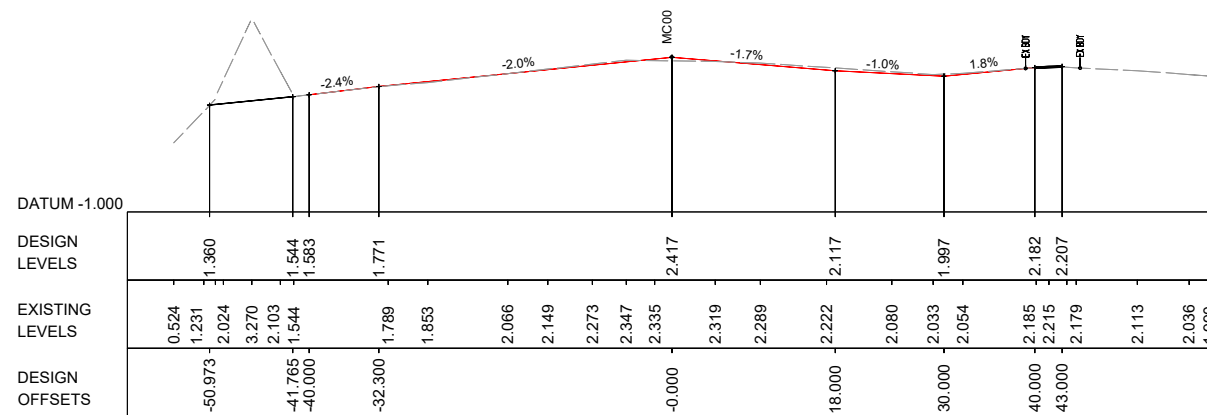
CH 120.0



CH 20.0

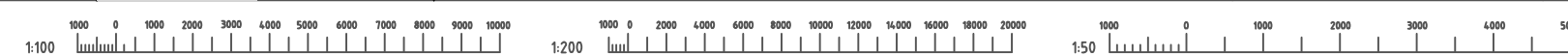


CH 100.0



NOT FOR CONSTRUCTION

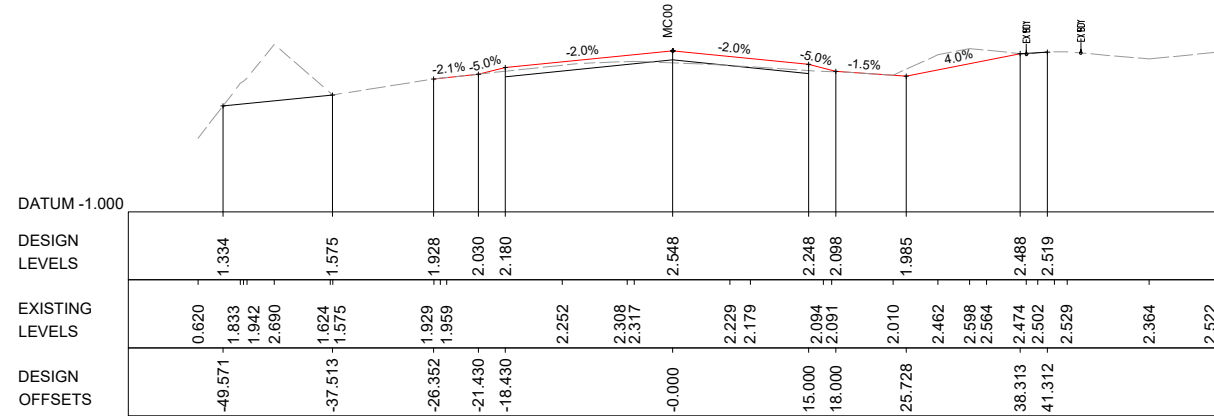
<b>REVISION</b>	<b>BY</b>	<b>APPD</b>	<b>DATE</b>	<b>NOTES</b>	<p><b>PLANNING AND PROJECTS DIVISION</b>  <b>Infrastructure Cook Islands</b>                  PO Box 1111, Main Road Arorangi, Rarotonga, Cook Islands                  PH: 20321 Fax: 24321 Web: www.icl.gov.ck</p>	<b>PROJECT TITLE</b> MANHIKI AIRPORT IMPROVEMENT	<b>DESIGNED:</b> PPP	<b>DATE:</b> 20.02.24	<b>CHECKED:</b> PPP	<b>DATE:</b> 26.02.24
						<b>DRAWING TITLE</b> CROSS SECTION - RUNWAY SHEET 1	<b>DRAWN:</b> PPP	<b>DATE:</b> 20.02.24	<b>APPROVED:</b> ICI SECRETARY	<b>DATE:</b> 26.02.24
							<b>CLIENT NAME:</b> MIG	<b>SCALES:</b> AS SHOWN	<b>DWG No.:</b> 202401-MHX-CV-2007	<b>SHT No.:</b> S09 OF S30



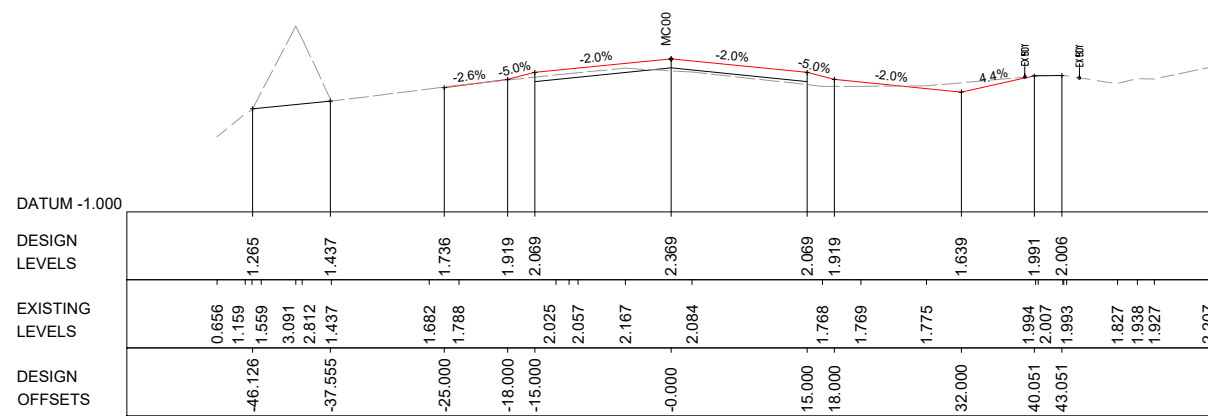


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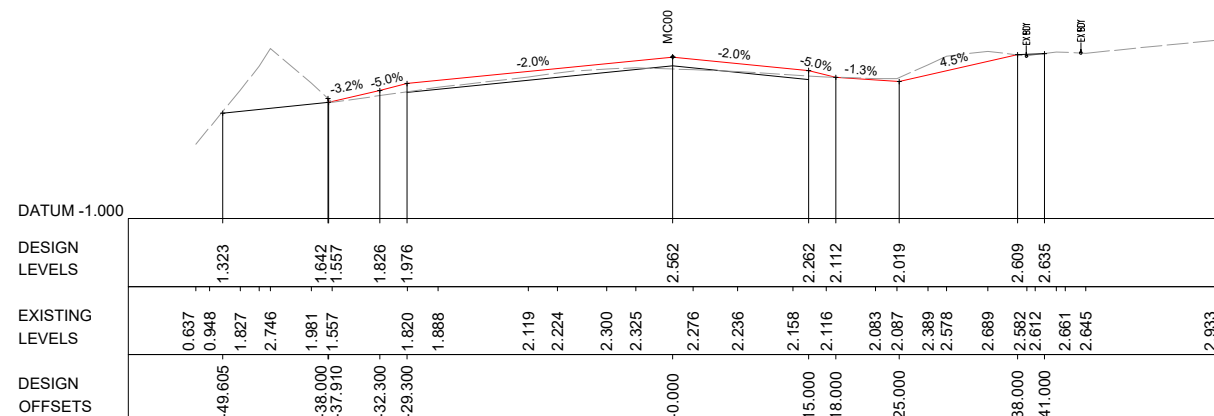
DESIGN SURFACE  
EXISTING SURFACE



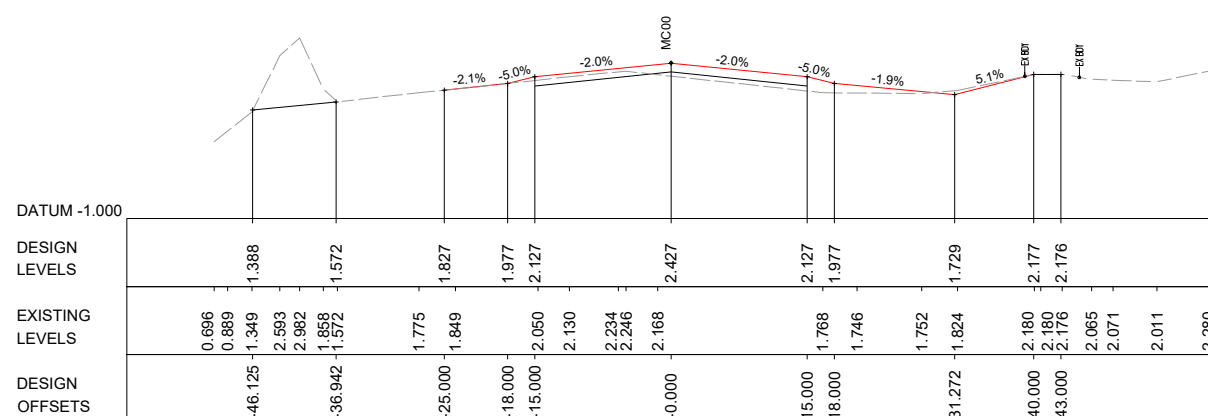
CH 220.0



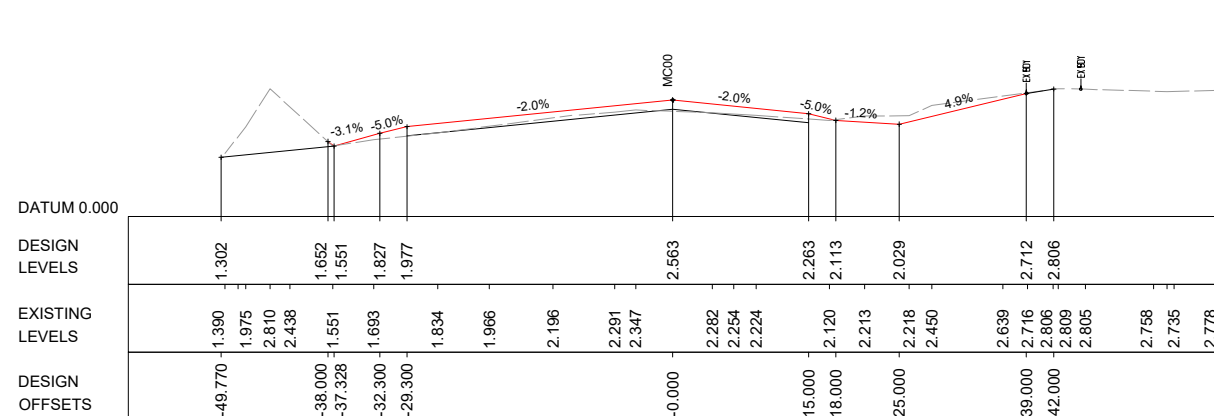
CH 300.0



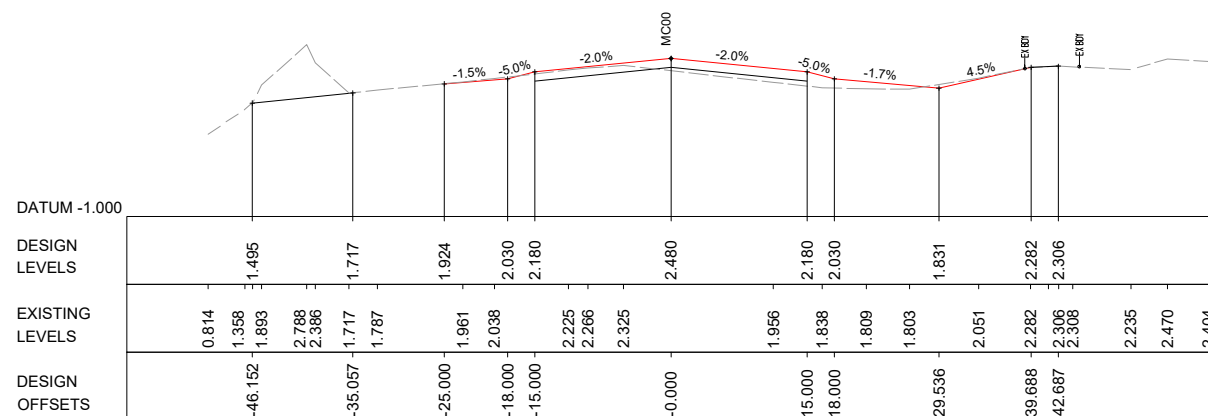
CH 200.0



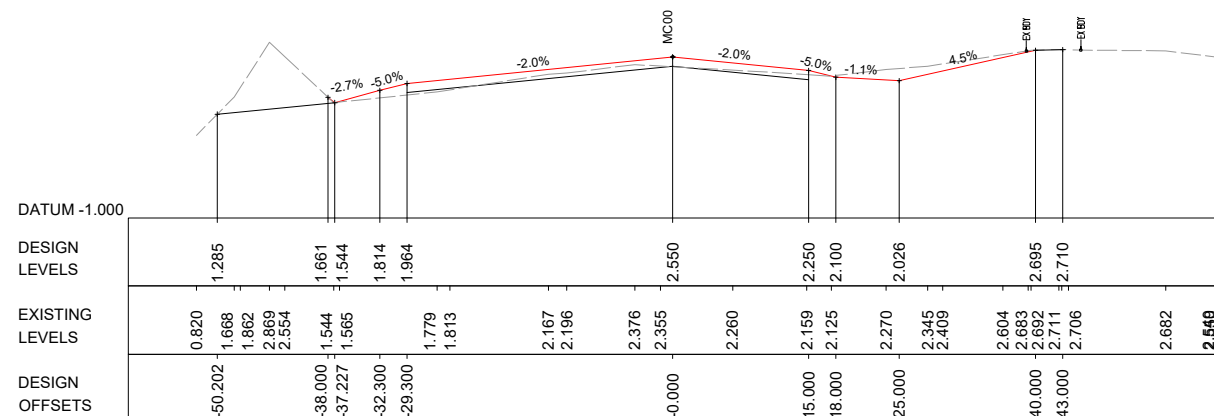
CH 280.0



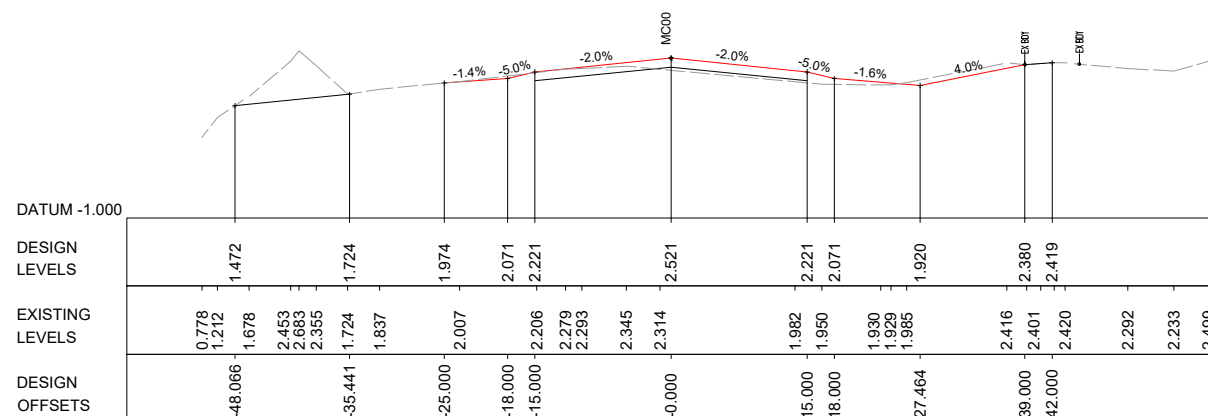
CH 180.0



CH 260.0



CH 160.0



CH 240.0

**NOT FOR CONSTRUCTION**

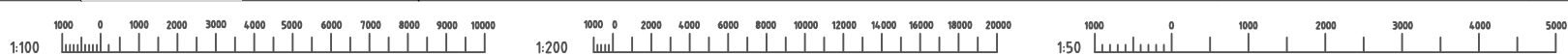
REVISION	BY	APPD	DATE	NOTES

**PLANNING AND PROJECTS DIVISION**  
**Infrastructure Cook Islands**  
 PO Box 1000  
 Main Road Arorangi  
 Raiatea, Cook Islands  
 PH: 20321  
 Fax: 24321  
 Web: www.icl.gov.ck

PROJECT TITLE  
**MANHIKI AIRPORT IMPROVEMENT**



DRAWING TITLE  
**CROSS SECTION - RUNWAY SHEET 2**

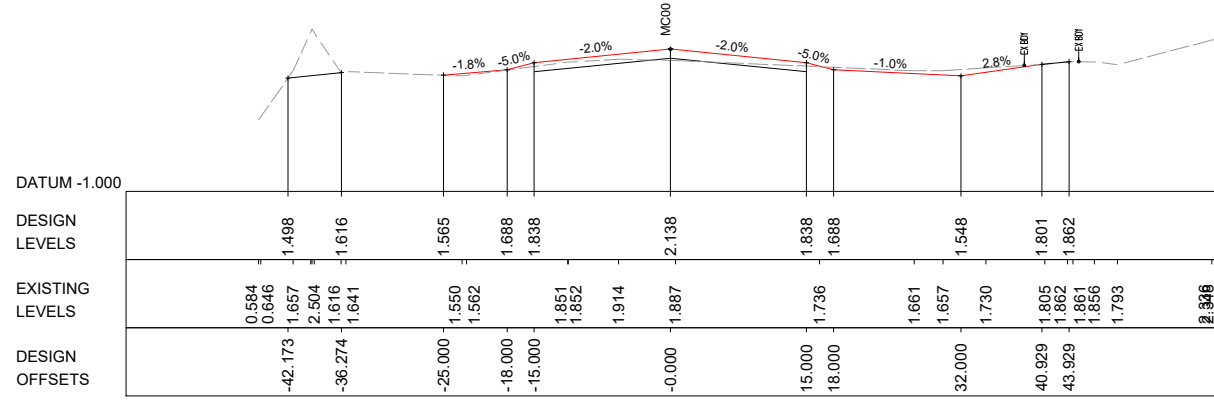
DESIGNED: <b>PPP</b>	DATE: <b>20.02.24</b>	CHECKED: <b>PPP</b>	DATE: <b>26.02.24</b>
DRAWN: <b>PPP</b>	DATE: <b>20.02.24</b>	APPROVED: <b>ICI SECRETARY</b>	DATE: <b>26.02.24</b>
CLIENT NAME: <b>MIG</b>	SCALES: <b>AS SHOWN</b>	DWG No. <b>202401-MHX-CV-2008</b>	SHT No. <b>S10 OF S30</b>



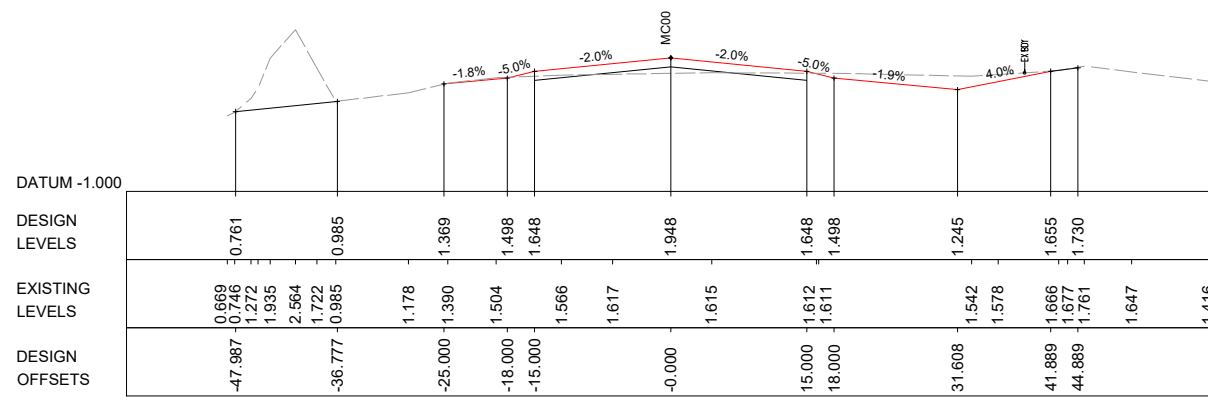


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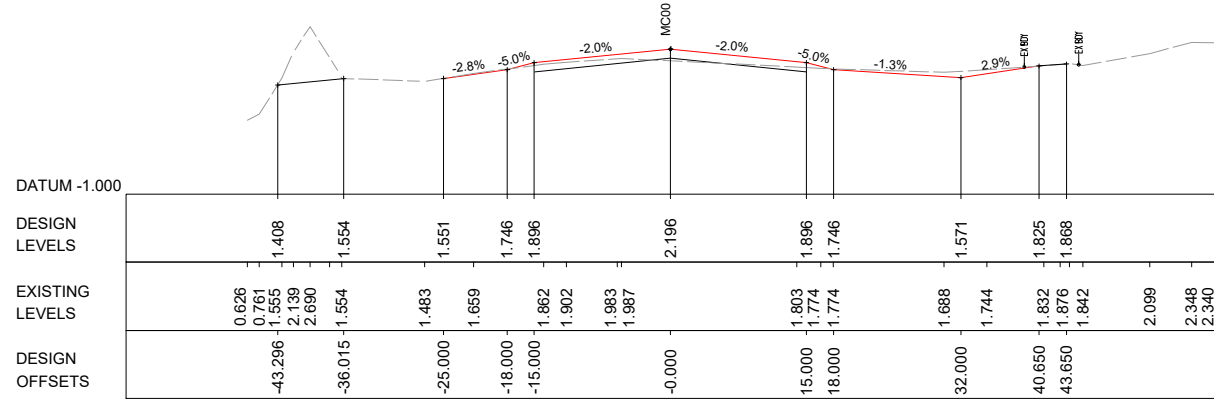
DESIGN SURFACE   
 EXISTING SURFACE 



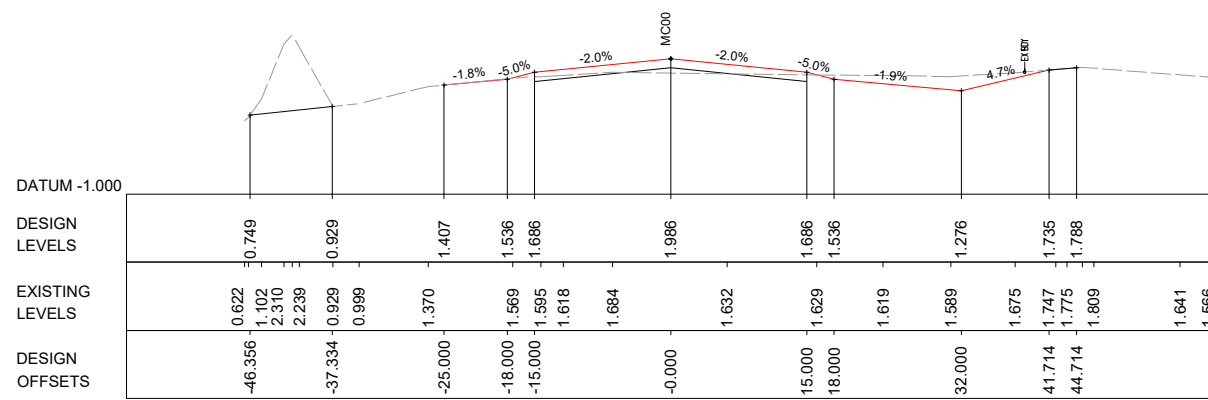
CH 380.0



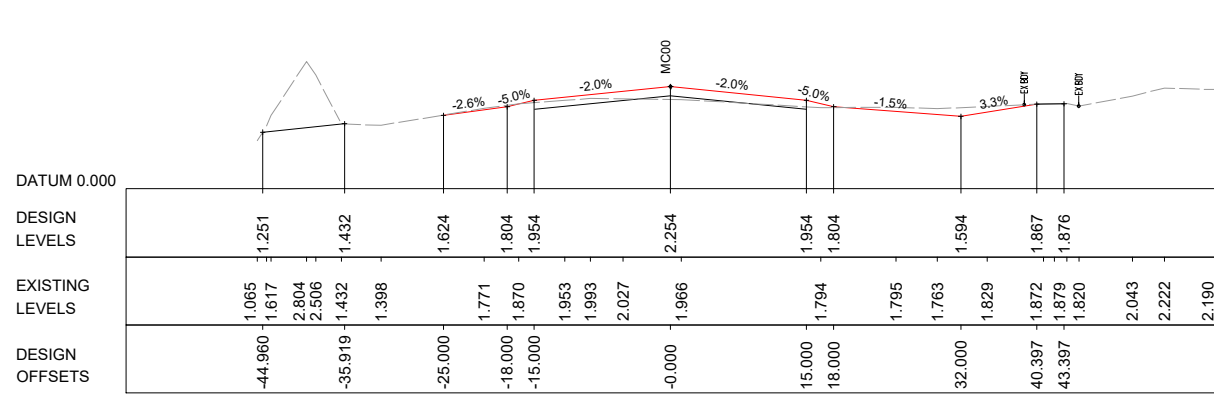
CH 460.0



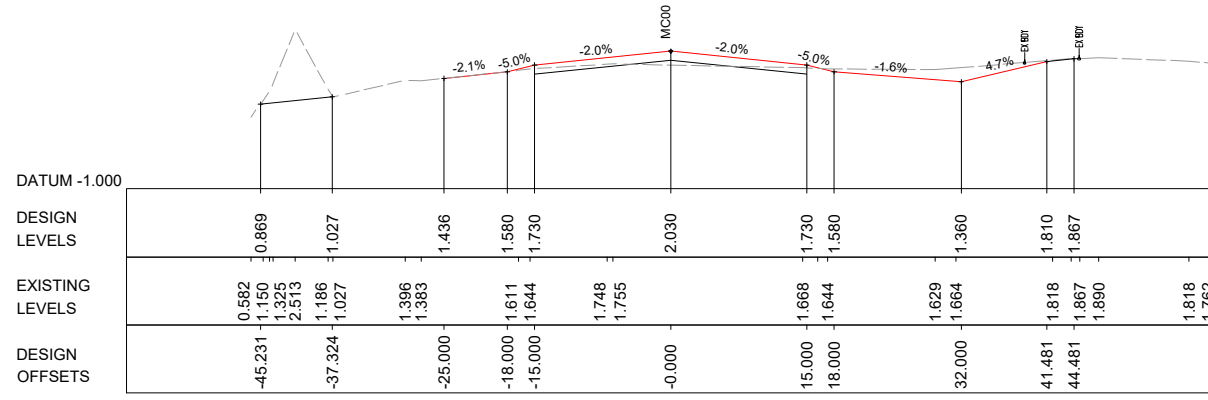
CH 360.0



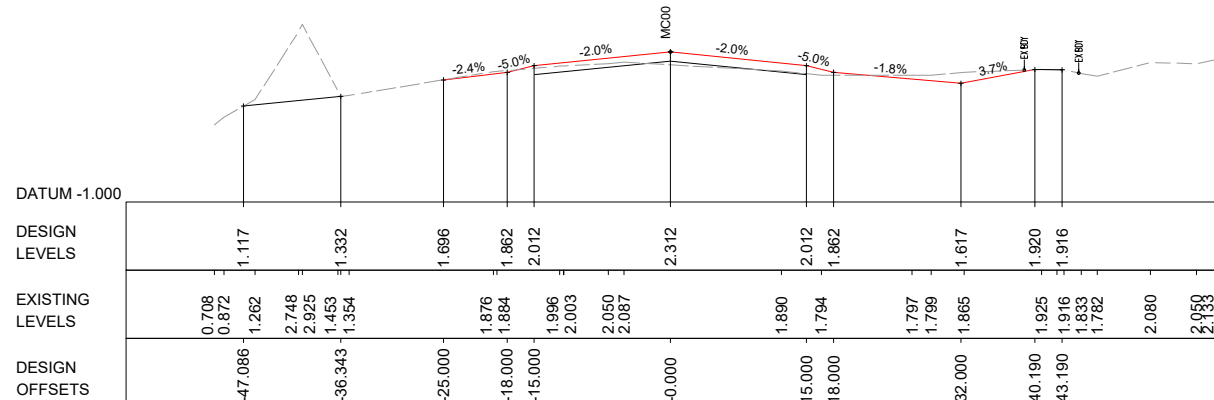
CH 440.0



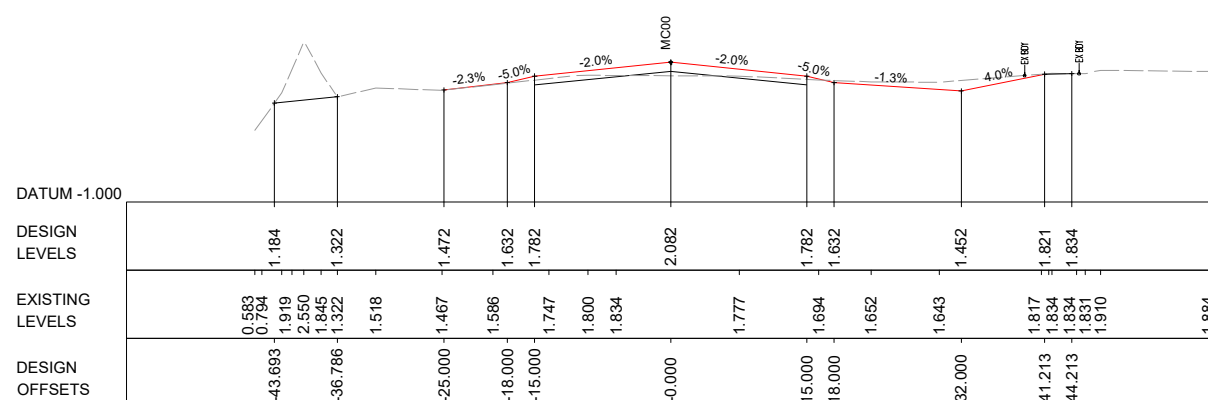
CH 340.0



CH 420.0



CH 320.0



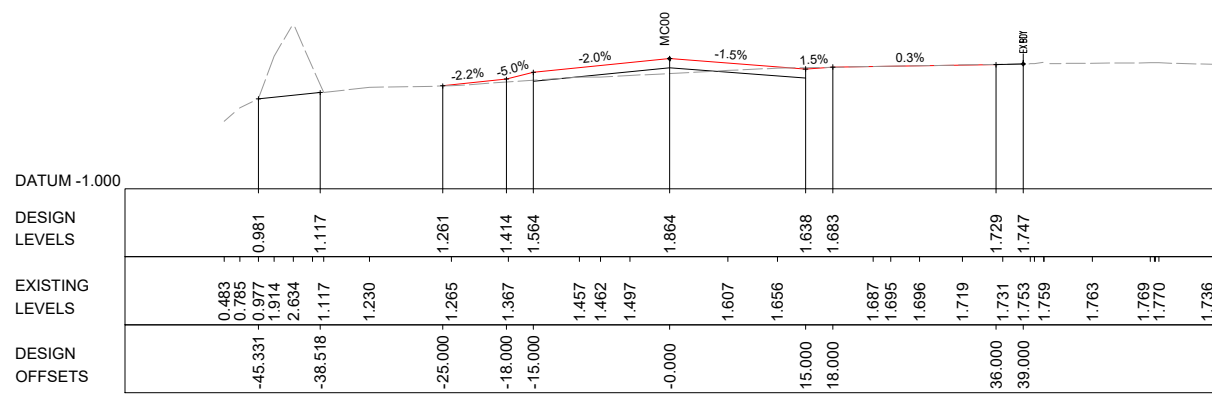
CH 400.0

**NOT FOR CONSTRUCTION**

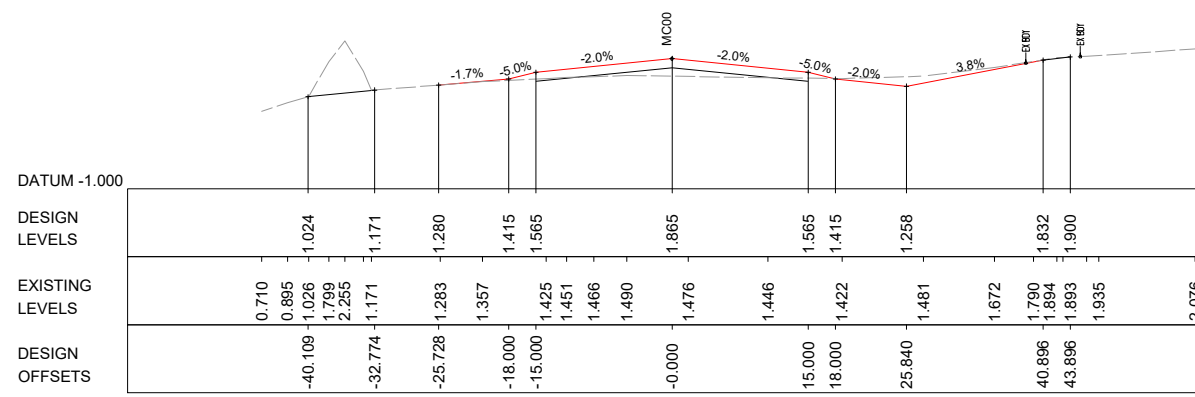
REVISION BY APPD DATE NOTES	PLANNING AND PROJECTS DIVISION <b>Infrastructure Cook Islands</b> PO Box 1000, Arorangi, Rarotonga, Cook Islands PH: 20321 Fax: 24321 Web: www.icl.gov.ck		PROJECT TITLE <b>MANHIKI AIRPORT IMPROVEMENT</b>	DESIGNED: <b>PPP</b>	DATE: <b>20.02.24</b>	CHECKED: <b>PPP</b>	DATE: <b>26.02.24</b>
	DRAWING TITLE <b>CROSS SECTION - RUNWAY SHEET 3</b>			DRAWN: <b>PPP</b>	DATE: <b>20.02.24</b>	APPROVED: <b>ICI SECRETARY</b>	DATE: <b>26.02.24</b>
				CLIENT NAME: <b>MIG</b>	SCALES: <b>AS SHOWN</b>	DWG No. <b>202401-MHX-CV-2009</b>	SHT No. <b>S11 OF S30</b>



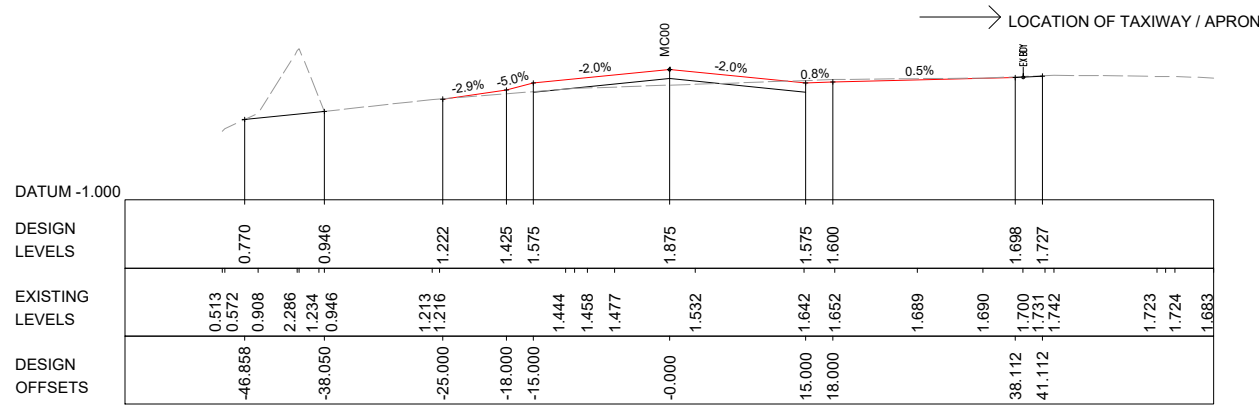


**LEGEND**DESIGN SURFACE  
EXISTING SURFACE

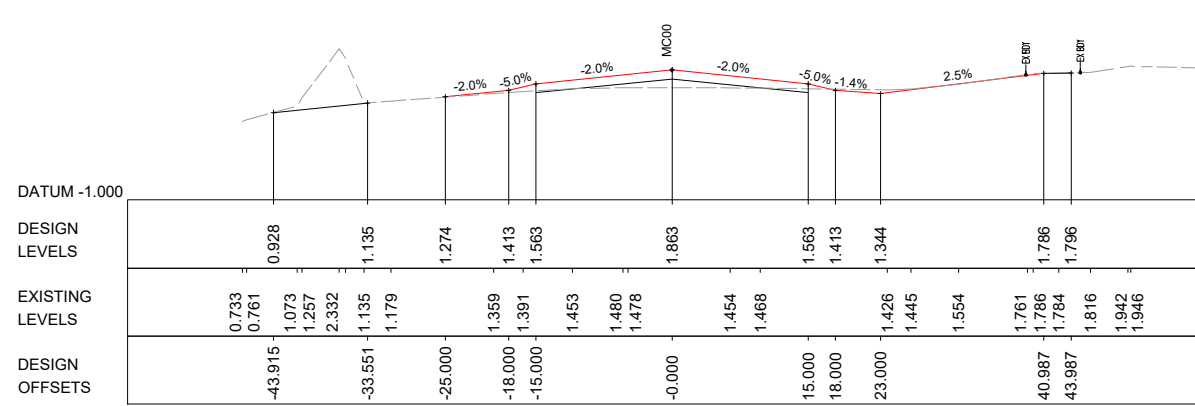
CH 540.0



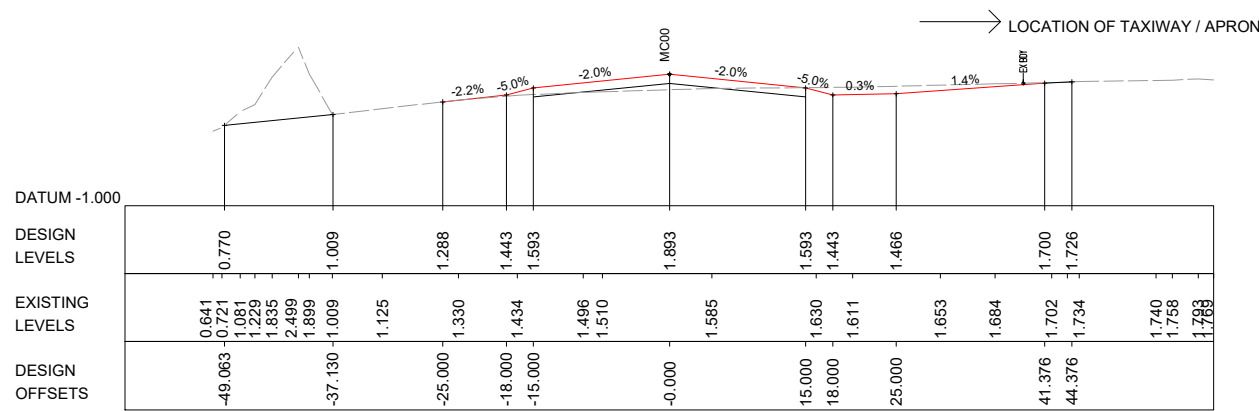
CH 620.0



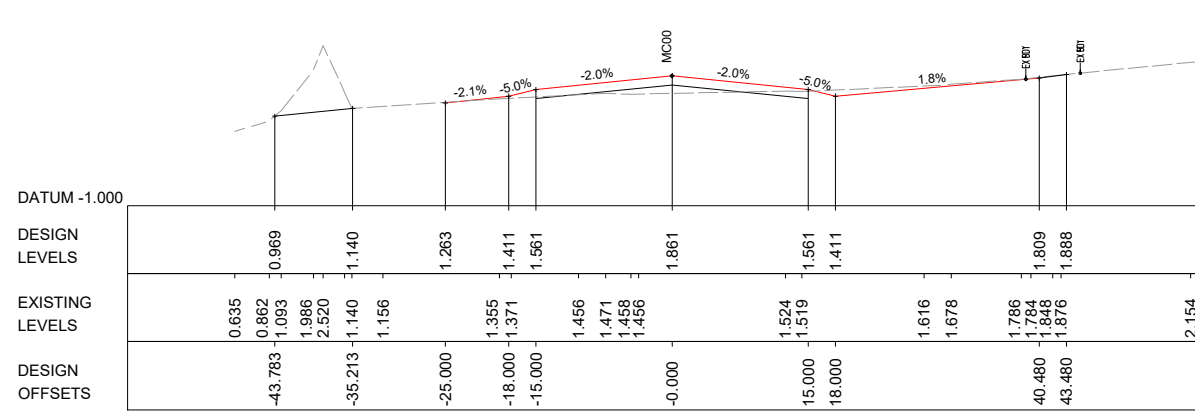
CH 520.0



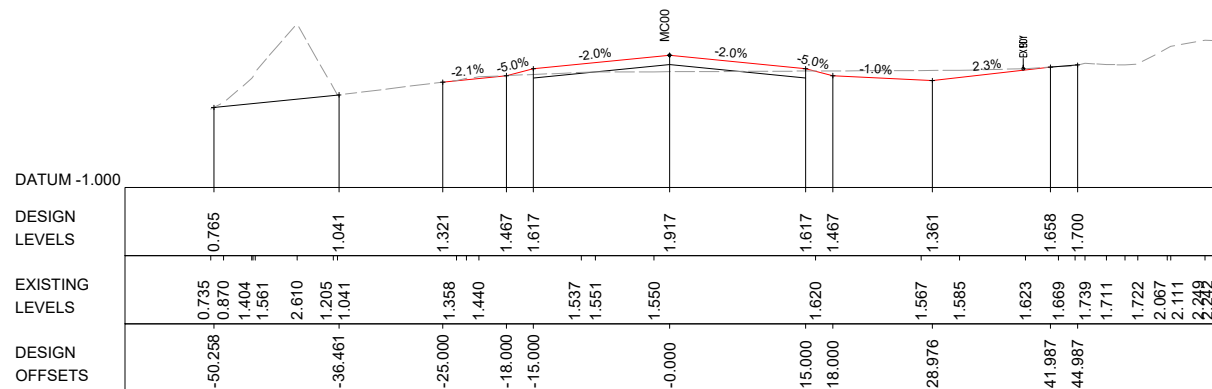
CH 600.0



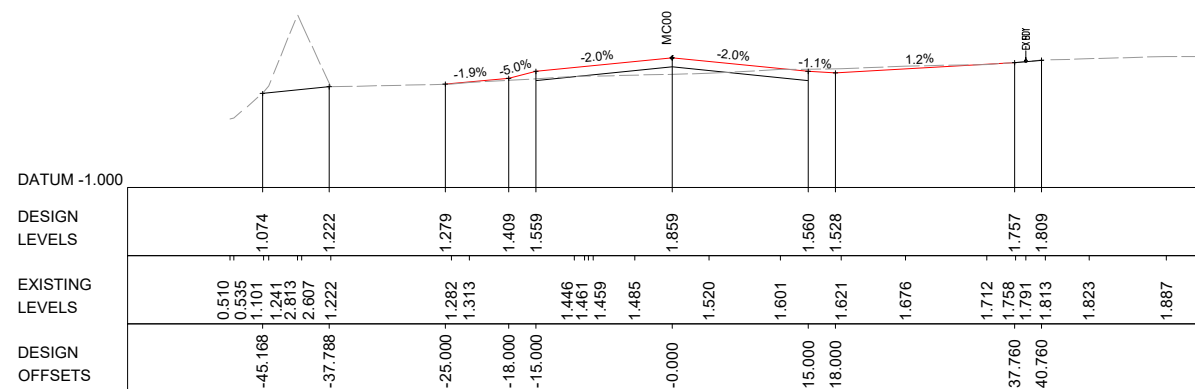
CH 500.0



CH 580.0



CH 480.0



CH 560.0

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES

PLANNING AND PROJECTS DIVISION  
**Infrastructure Cook Islands**  
PO Box 100, Arorangi  
Rarotonga, Cook Islands  
PH: 20321  
Fax: 24321  
Web: www.icl.gov.ck

PROJECT TITLE  
**MANHIKI AIRPORT IMPROVEMENT**

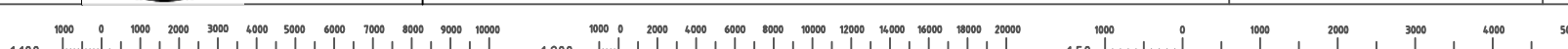
DRAWING TITLE  
**CROSS SECTION - RUNWAY SHEET 4**

DESIGNED: **PPP**  
DRAWN: **PPP**  
CLIENT NAME: **MIG**

DATE: **20.02.24**  
DATE: **20.02.24**  
SCALES: **AS SHOWN**



CHECKED: **PPP**  
APPROVED: **ICI SECRETARY**  
DWG No. **202401-MHX-CV-2010**

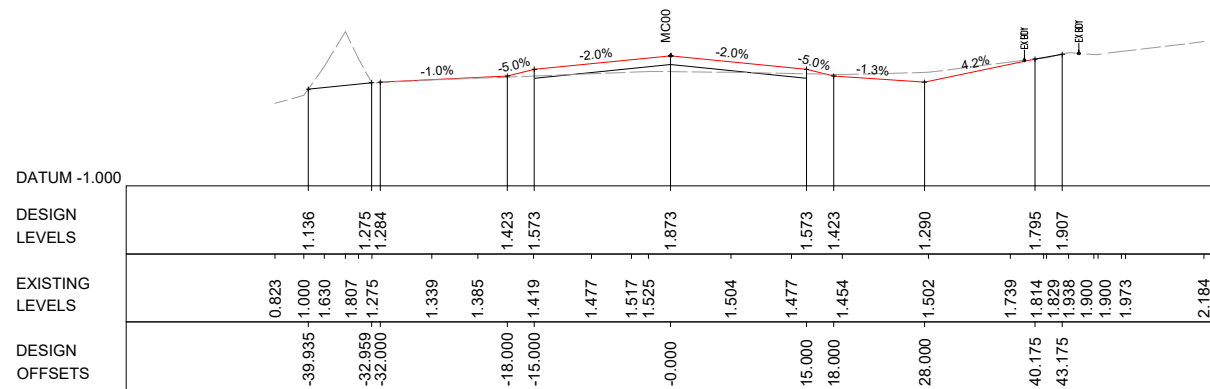
DATE: **26.02.24**  
DATE: **26.02.24**  
SHT No. **S12 OF S30**



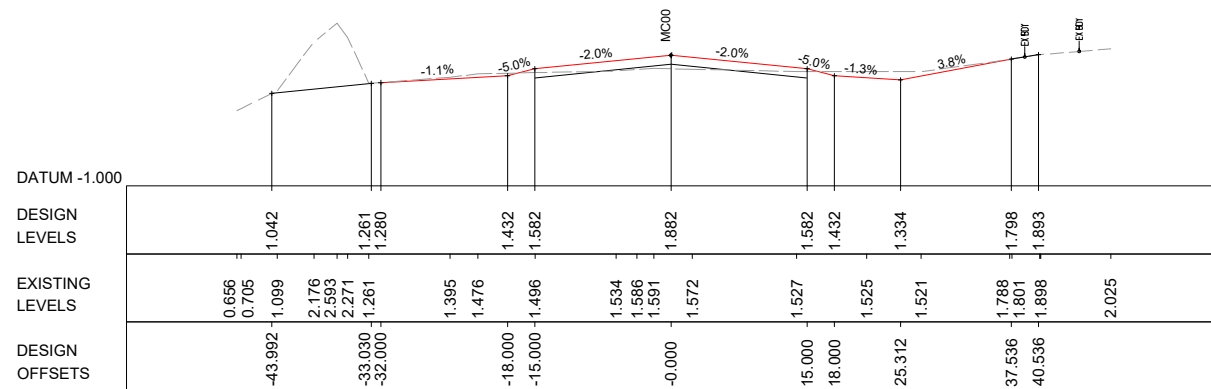


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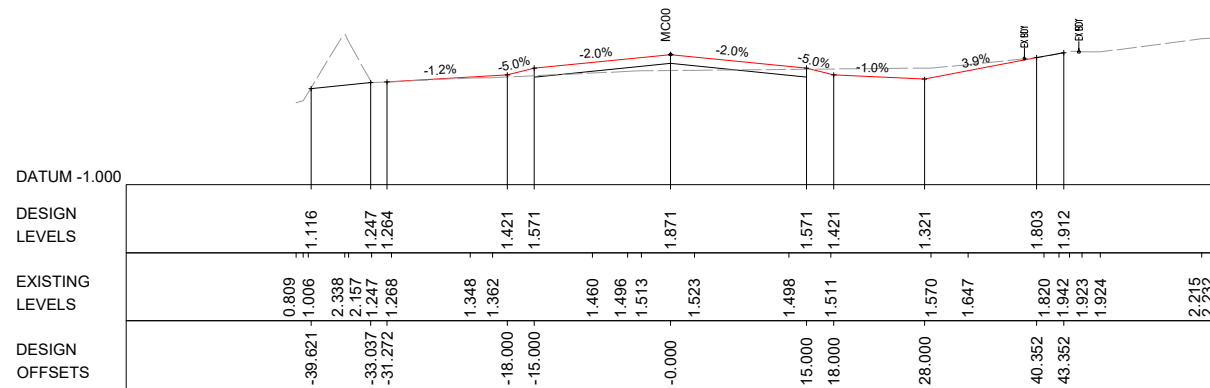
DESIGN SURFACE   
 EXISTING SURFACE 



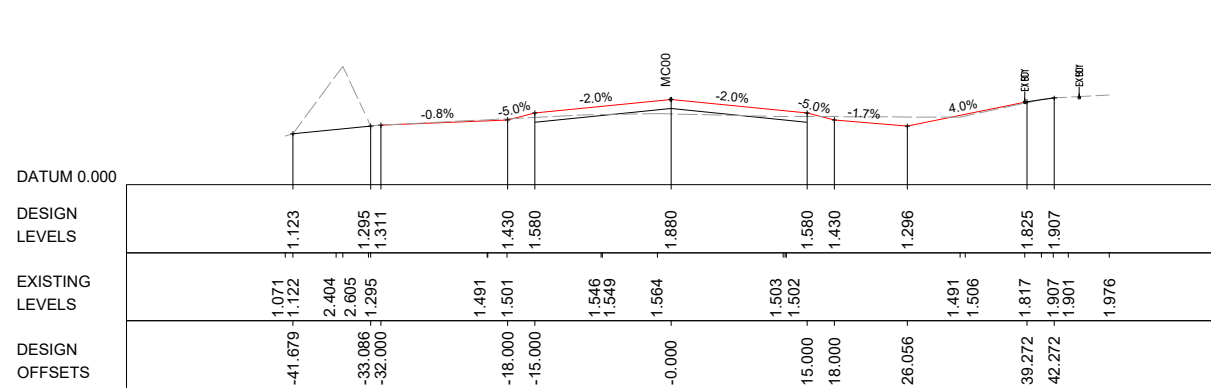
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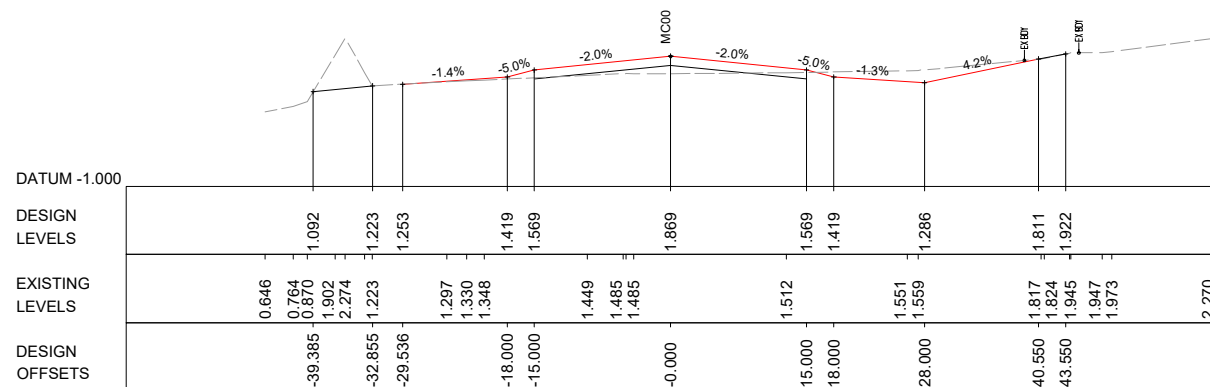
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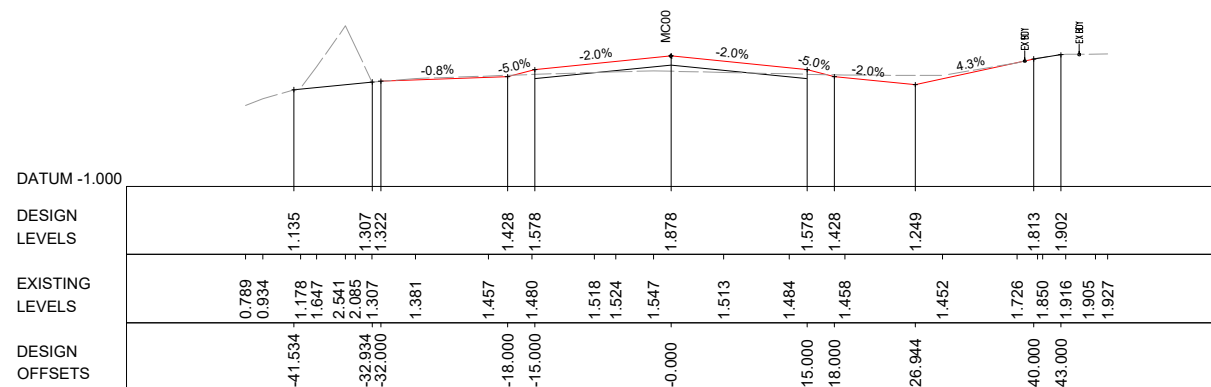
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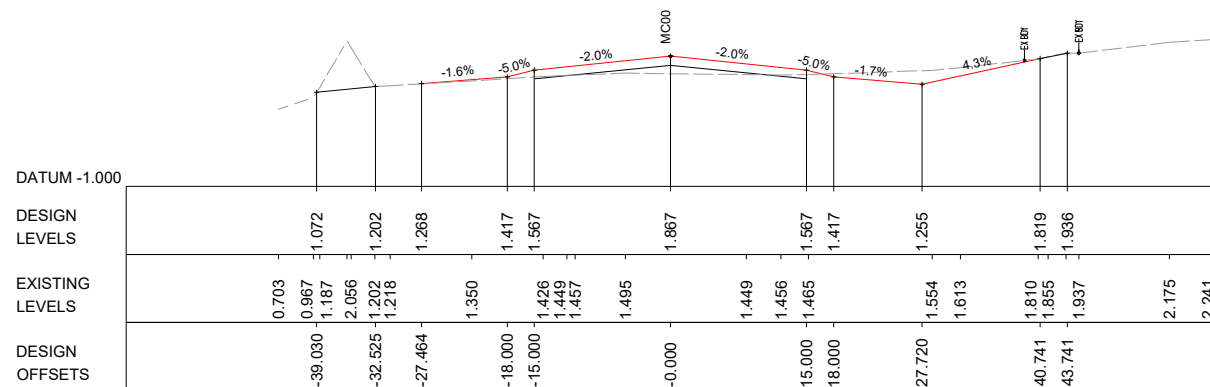
CH 760.0



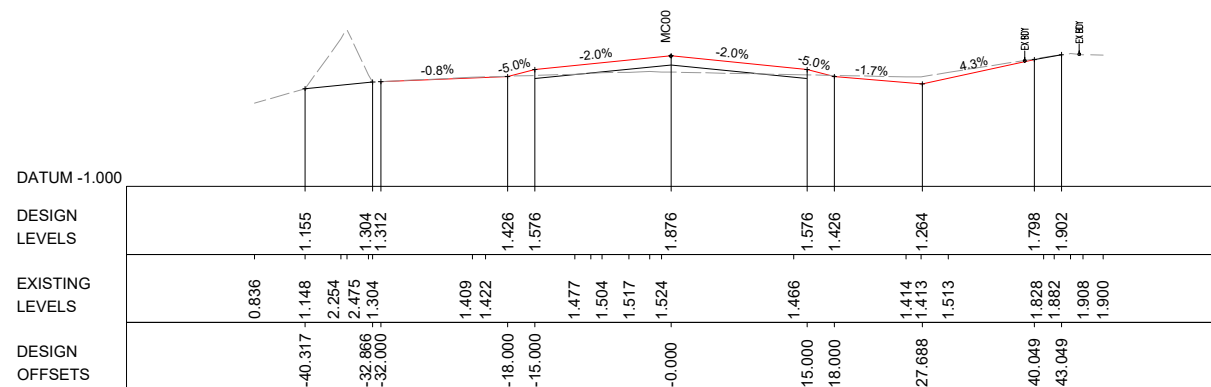
CH 660.0



CH 740.0



CH 640.0



CH 720.0

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES



PROJECT TITLE  
**MANHIKI AIRPORT IMPROVEMENT**

DRAWING TITLE  
**CROSS SECTION - RUNWAY SHEET 5**

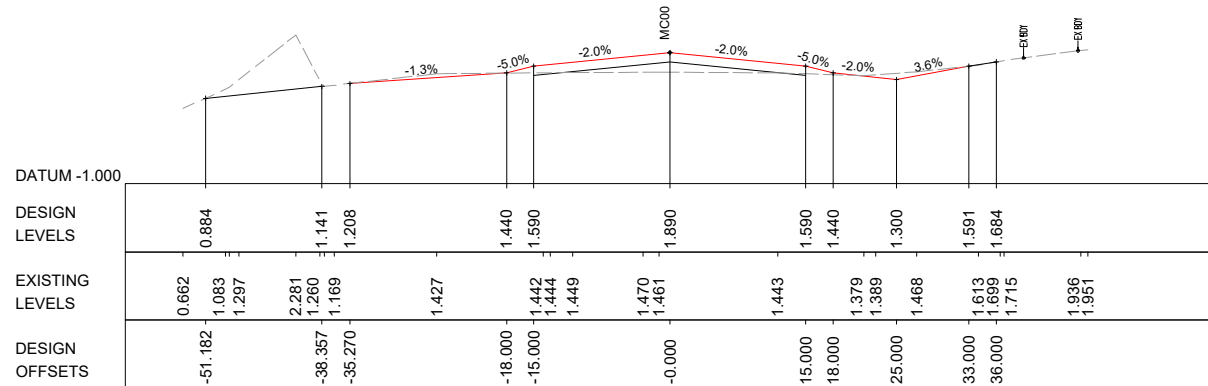
DESIGNED: <b>PPP</b>	DATE: <b>20.02.24</b>	CHECKED: <b>PPP</b>	DATE: <b>26.02.24</b>
DRAWN: <b>PPP</b>	DATE: <b>20.02.24</b>	APPROVED: <b>ICI SECRETARY</b>	DATE: <b>26.02.24</b>
CLIENT NAME: <b>MIG</b>	SCALES: <b>AS SHOWN</b>	DWG No. <b>202401-MHX-CV-2011</b>	SHT No. <b>S13 OF S30</b>



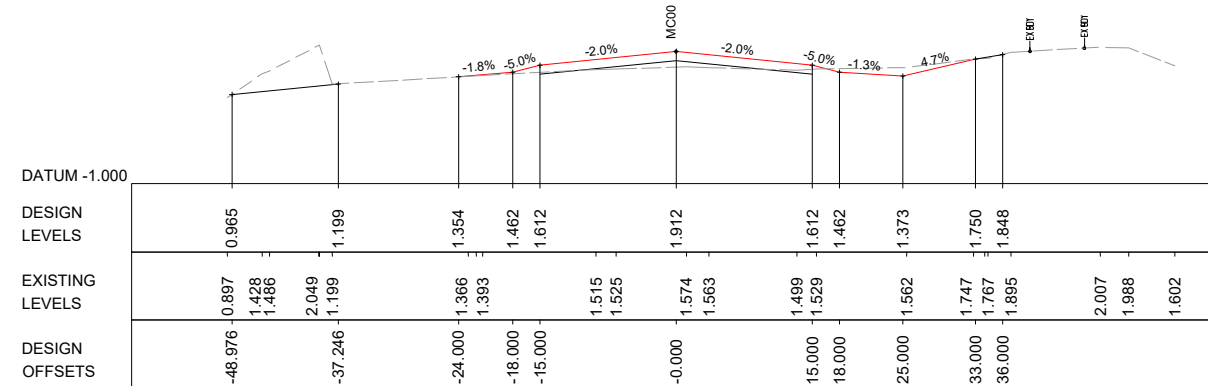


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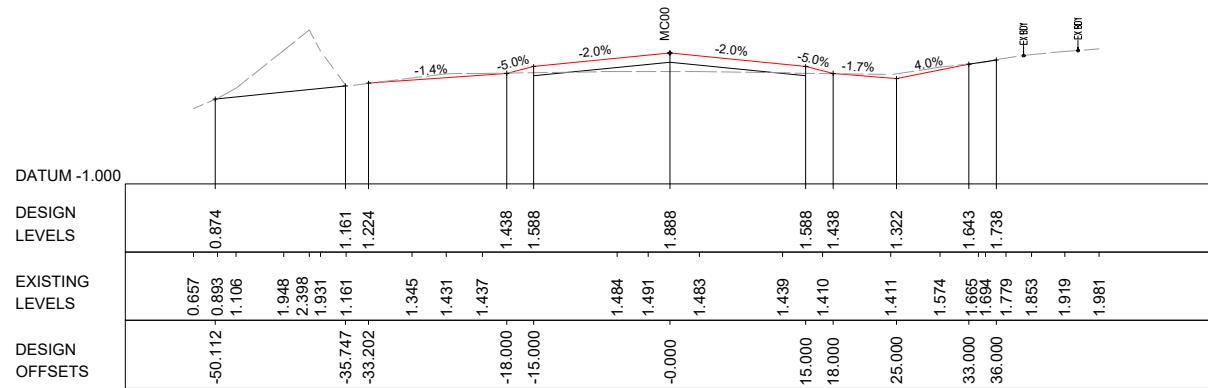
DESIGN SURFACE  
EXISTING SURFACE



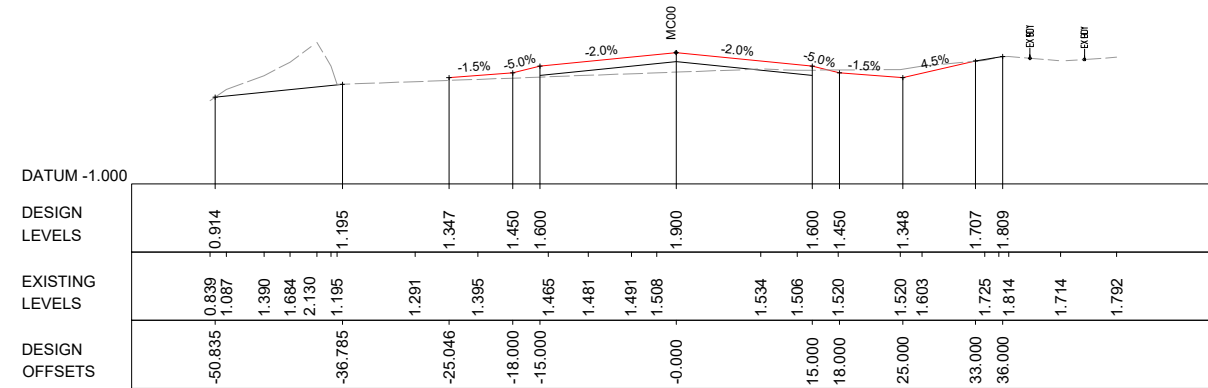
CH 860.0



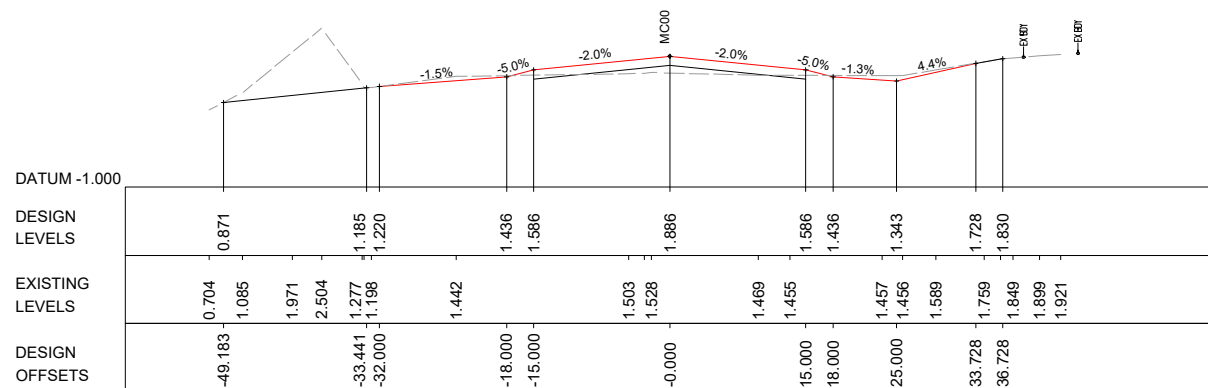
CH 940.0



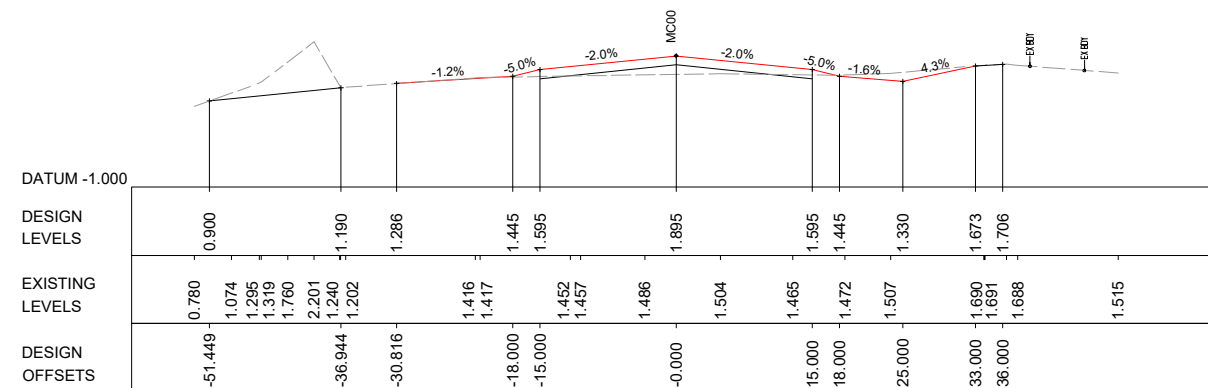
CH 840.0



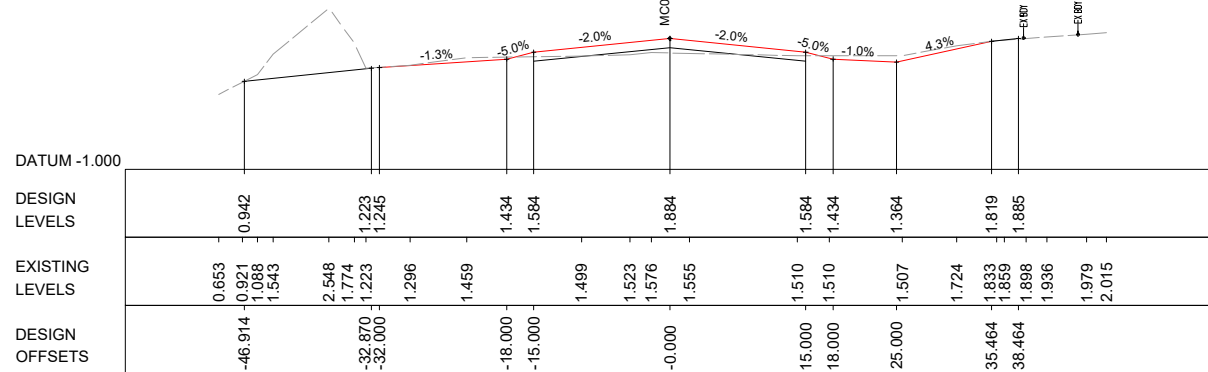
CH 920.0



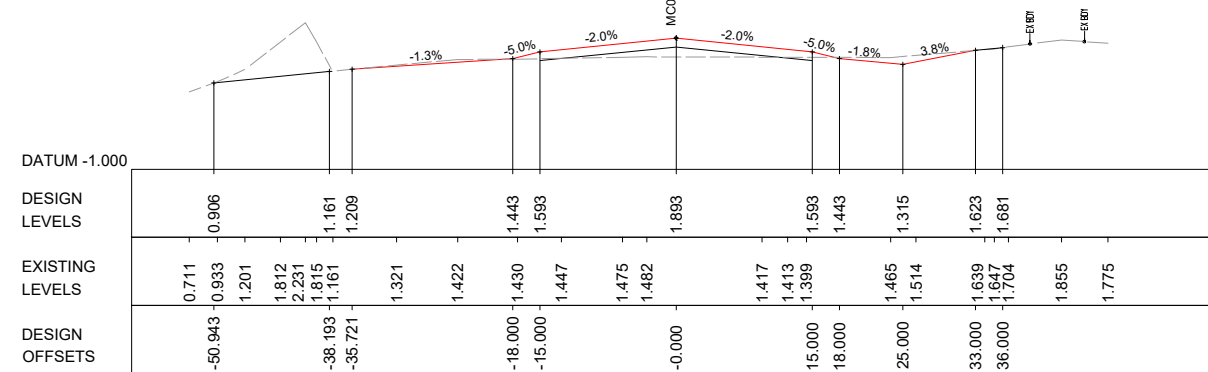
CH 820.0



CH 900.0



CH 800.0



CH 880.0

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES

**PLANNING AND PROJECTS DIVISION**

**Infrastructure Cook Islands**  
PO Box 1111  
Main Road Arorangi  
Rarotonga, Cook Islands  
PH: 20321  
Fax: 24321  
Web: www.icl.gov.ck

PROJECT TITLE  
**MANHIKI AIRPORT IMPROVEMENT**

DRAWING TITLE  
**CROSS SECTION - RUNWAY SHEET 6**

DESIGNED: **PPP**

DRAWN: **PPP**

CLIENT NAME:  
**MIG**

DATE: **20.02.24**

DATE: **20.02.24**

SCALES:  
**AS SHOWN**

CHECKED: **PPP**

APPROVED: **ICI SECRETARY**

DWG No.  
**202401-MHX-CV-2012**

DATE: **26.02.24**

DATE: **26.02.24**

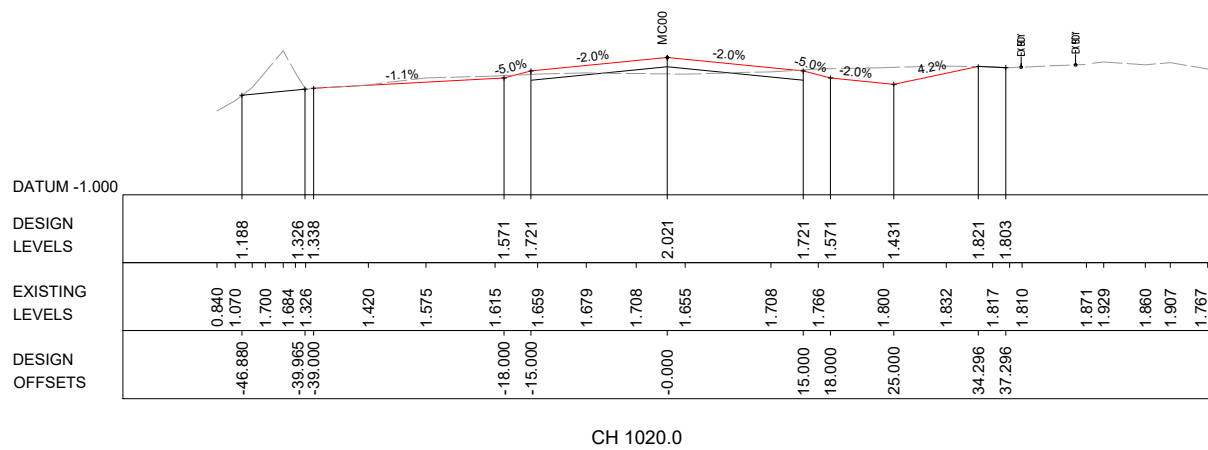
SHT No.  
**S14 OF S30**



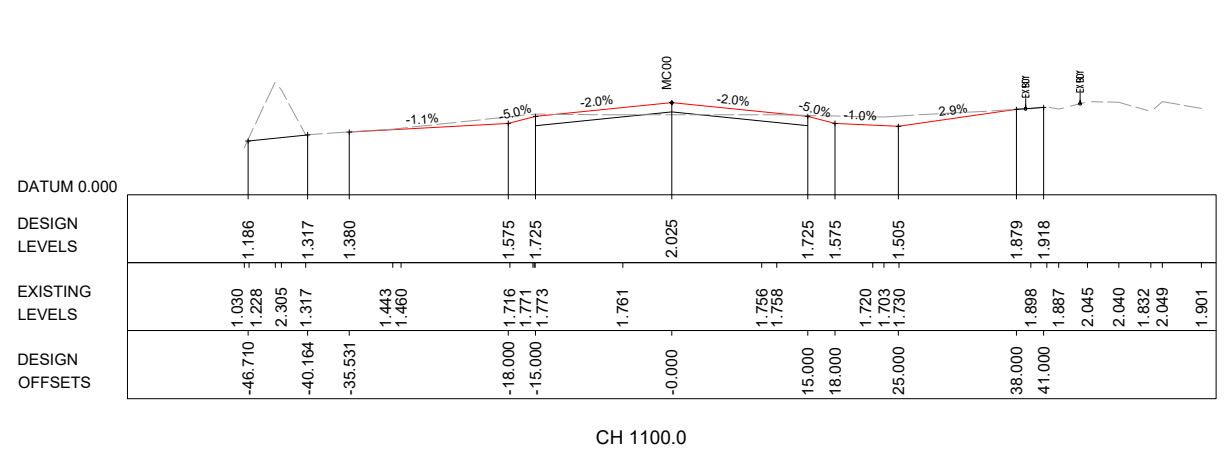


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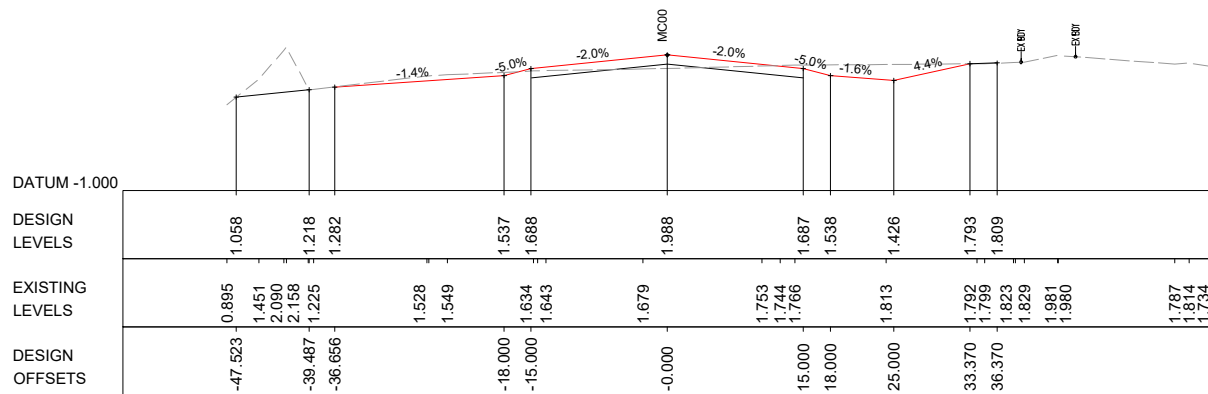
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EXISTING SURFACE



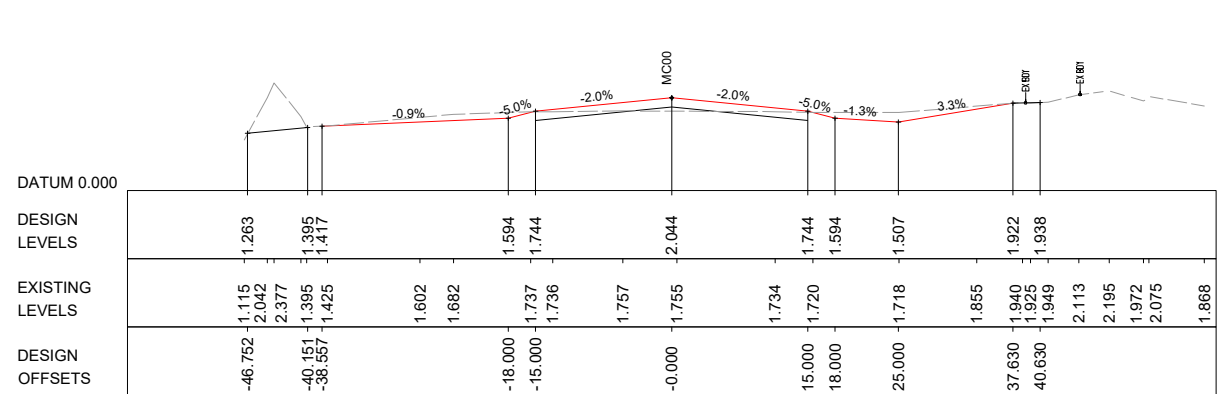
CH 1020.0



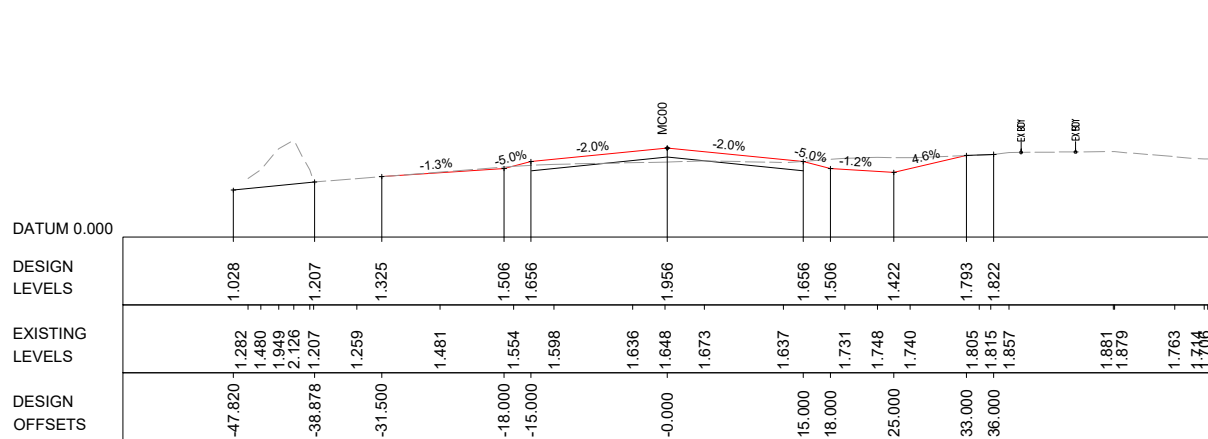
CH 1100.0



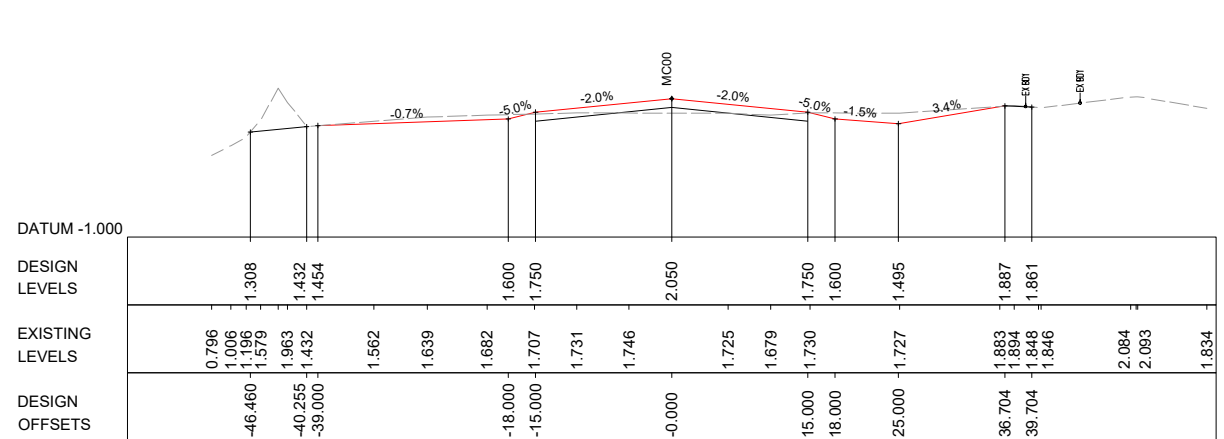
CH 1000.0



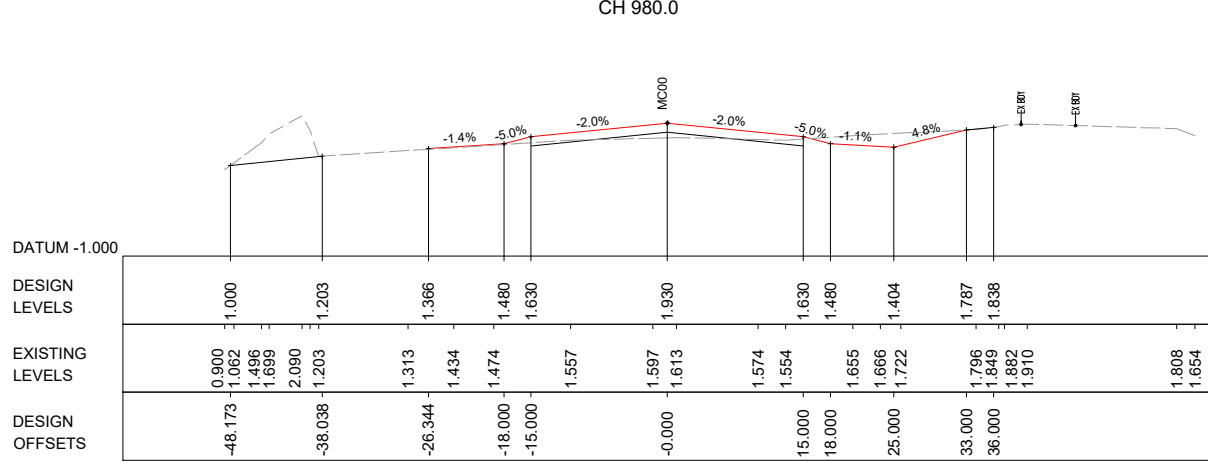
CH 1080.0



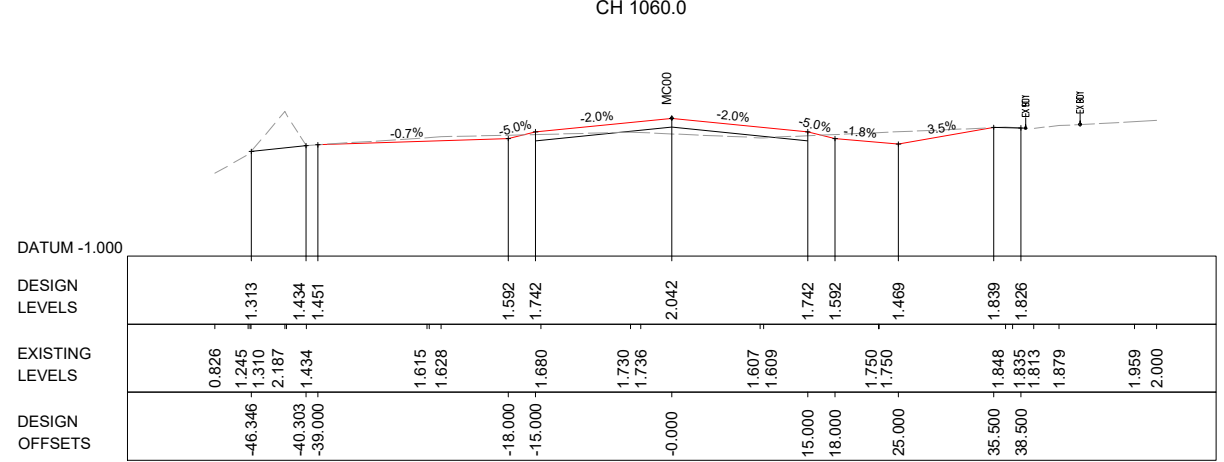
CH 980.0



CH 1060.0



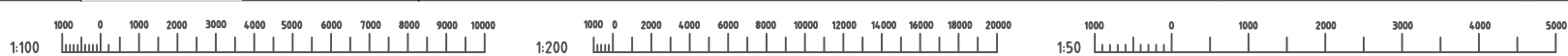
CH 960.0



CH 1040.0

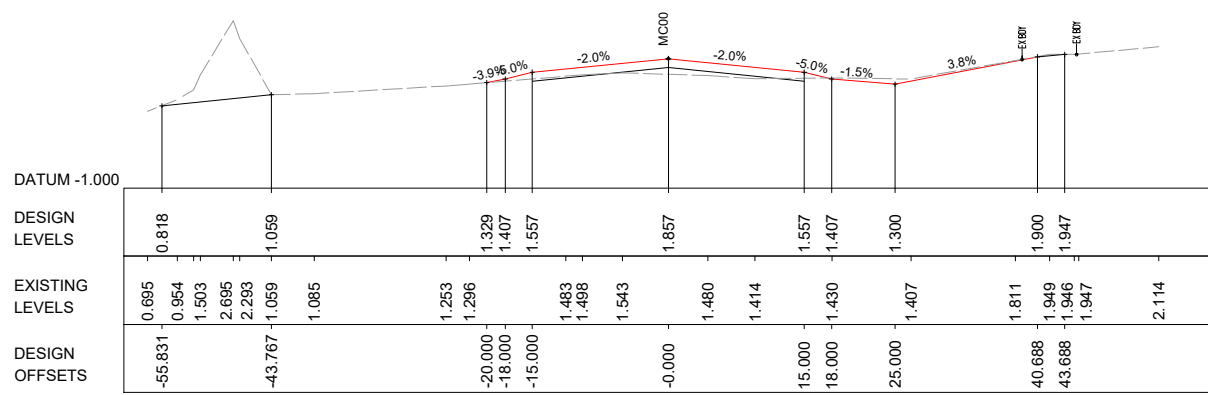
**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES	<p><b>PLANNING AND PROJECTS DIVISION</b> Infrastructure Cook Islands PO Box 1100, Arorangi Rarotonga, Cook Islands PH: 20321 Fax: 24321 Web: www.icl.gov.ck</p>	PROJECT TITLE	DESIGNED:	DATE:	CHECKED:	DATE:
						MANIHIKI AIRPORT IMPROVEMENT	PPP	20.02.24	PPP	26.02.24
						DRAWING TITLE	PPP	20.02.24	APPROVED:	DATE:
						CROSS SECTION - RUNWAY SHEET 7	MIG	AS SHOWN	ICI SECRETARY	26.02.24
								CLIENT NAME:	DWG No.	SHT No.
								202401-MHX-CV-2013	S15 OF S30	

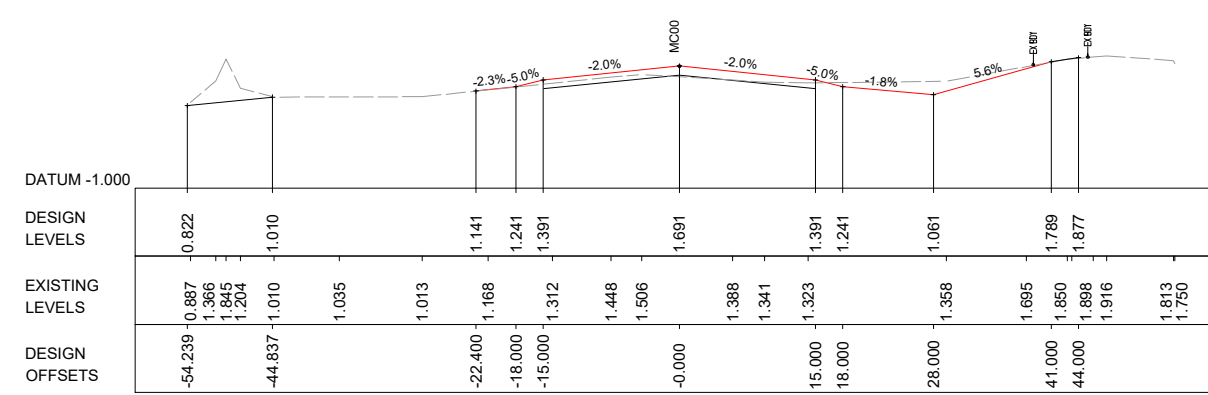


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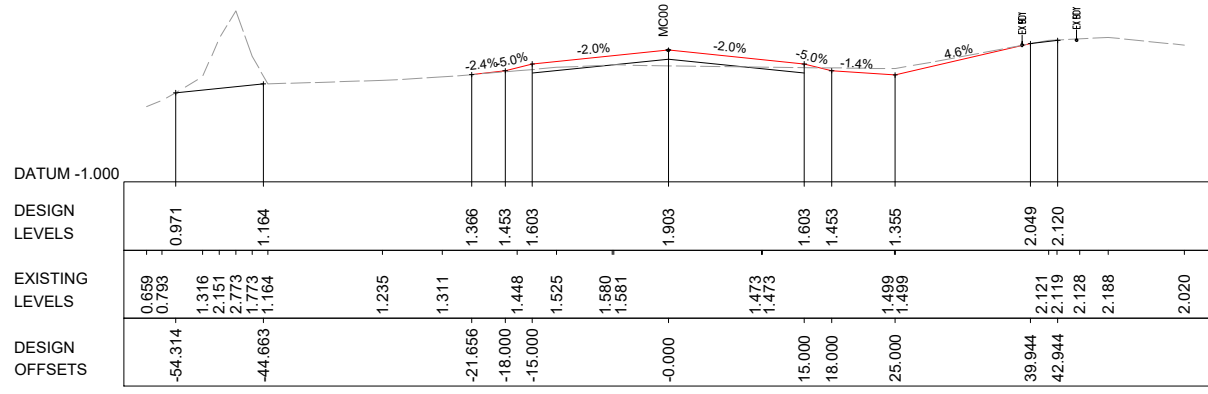
DESIGN SURFACE ———  
EXISTING SURFACE - - -



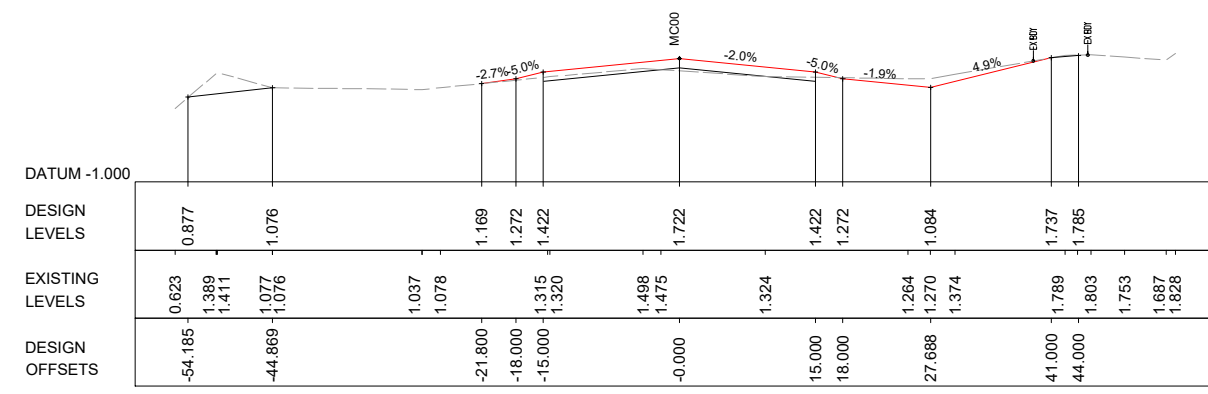
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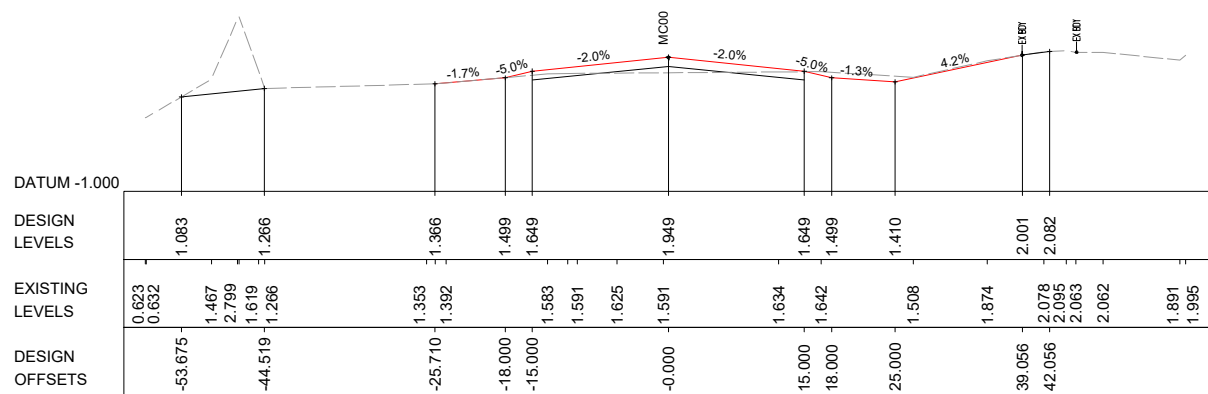
CH 1260.0



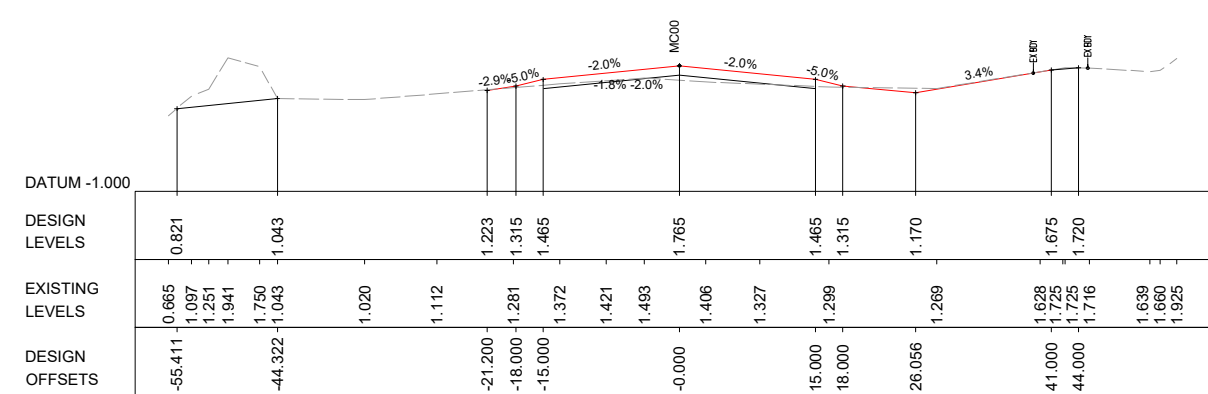
CH 1160.0



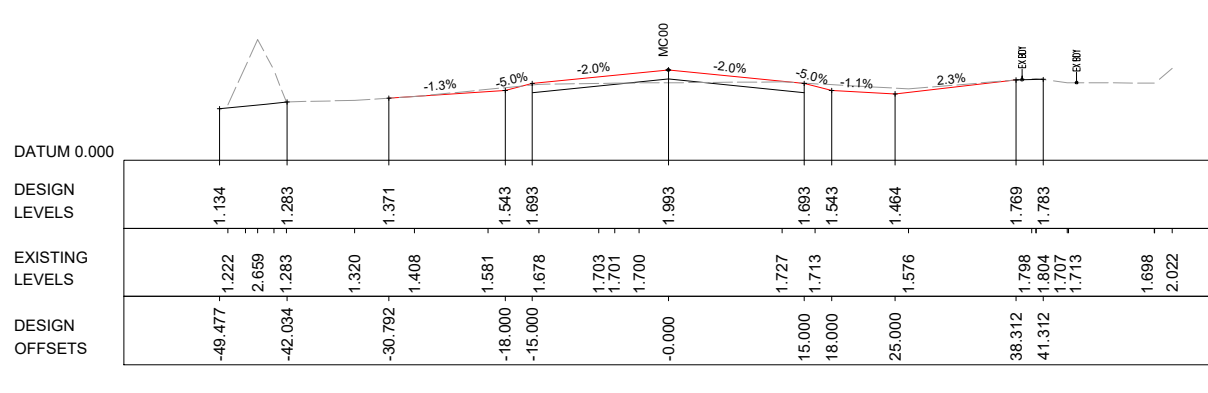
CH 1240.0



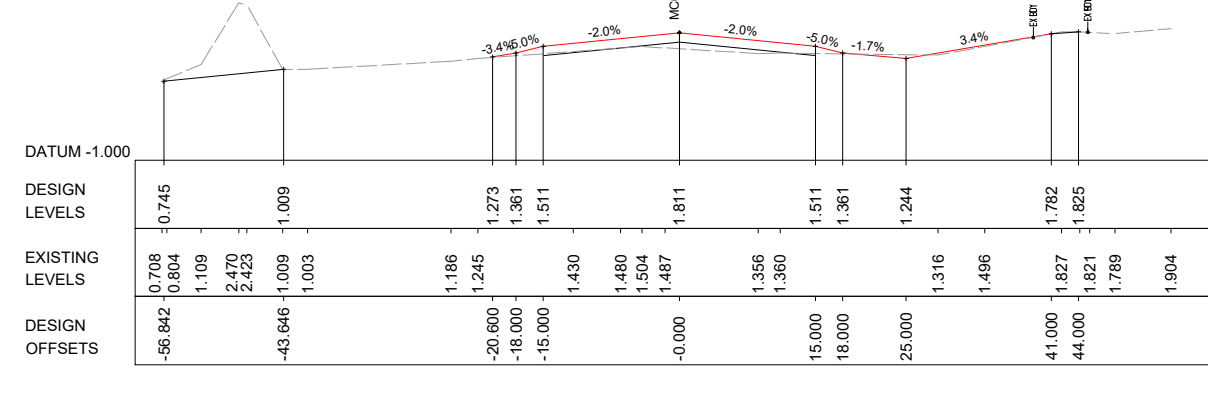
CH 1140.0



CH 1220.0



CH 1120.0



CH 1200.0

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES



PROJECT TITLE  
**MANHIKI AIRPORT IMPROVEMENT**

DRAWING TITLE  
**CROSS SECTION - RUNWAY SHEET 8**

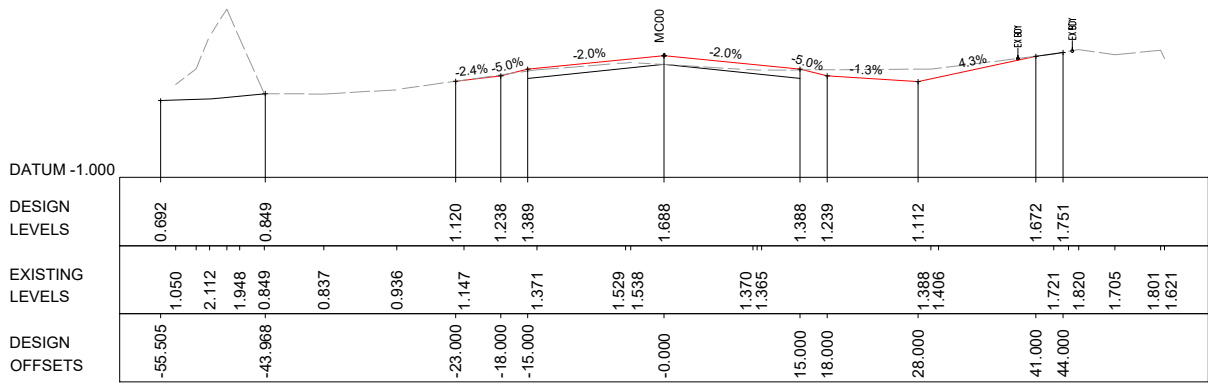
DESIGNED: <b>PPP</b>	DATE: <b>20.02.24</b>	CHECKED: <b>PPP</b>	DATE: <b>26.02.24</b>
DRAWN: <b>PPP</b>	DATE: <b>20.02.24</b>	APPROVED: <b>ICI SECRETARY</b>	DATE: <b>26.02.24</b>
CLIENT NAME: <b>MIG</b>	SCALES: <b>AS SHOWN</b>	DWG No. <b>202401-MHX-CV-2014</b>	SHT No. <b>S16 OF S30</b>



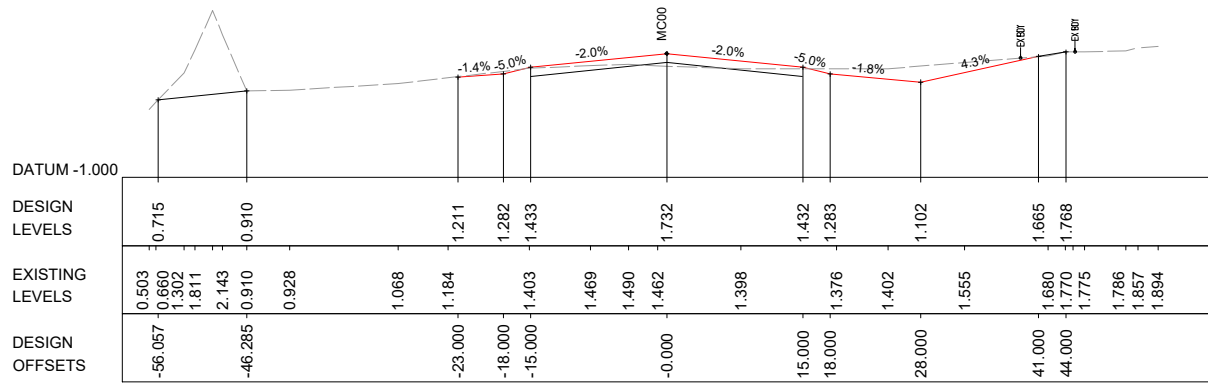


**LEGEND**

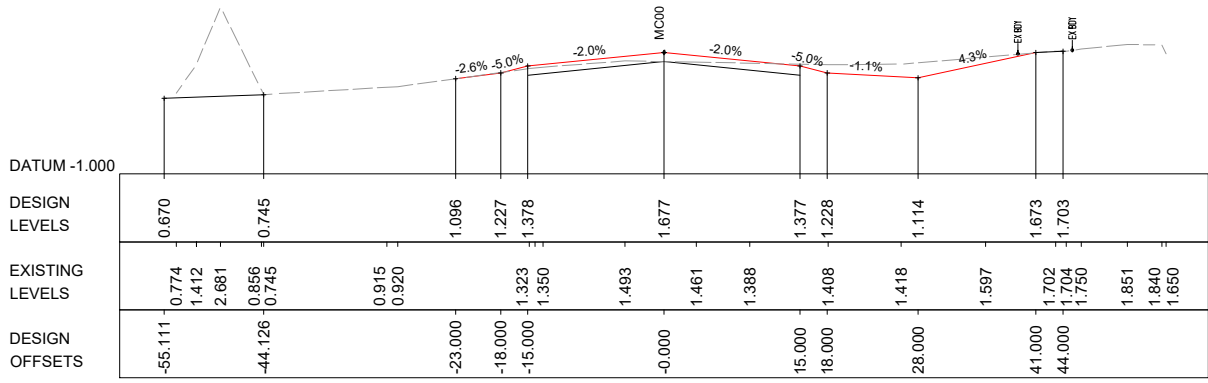
DESIGN SURFACE ———  
EXISTING SURFACE - - - - -



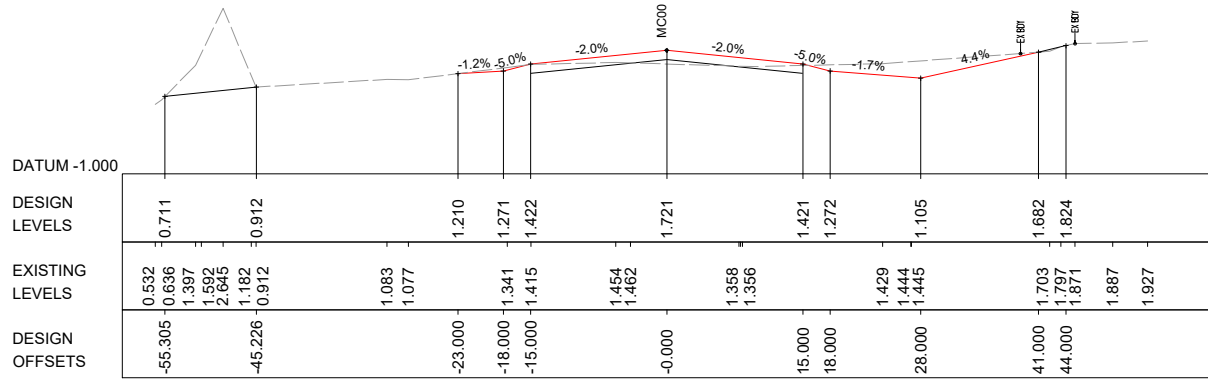
CH 1340.0



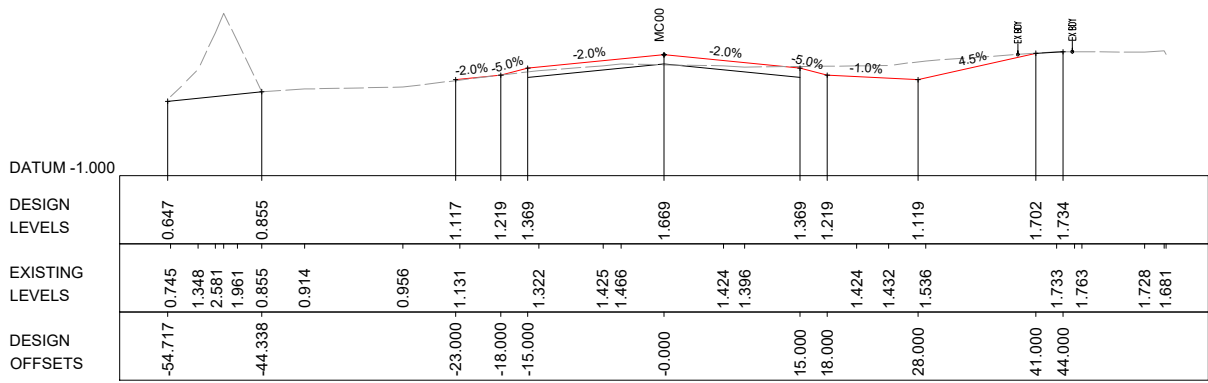
CH 1420.0



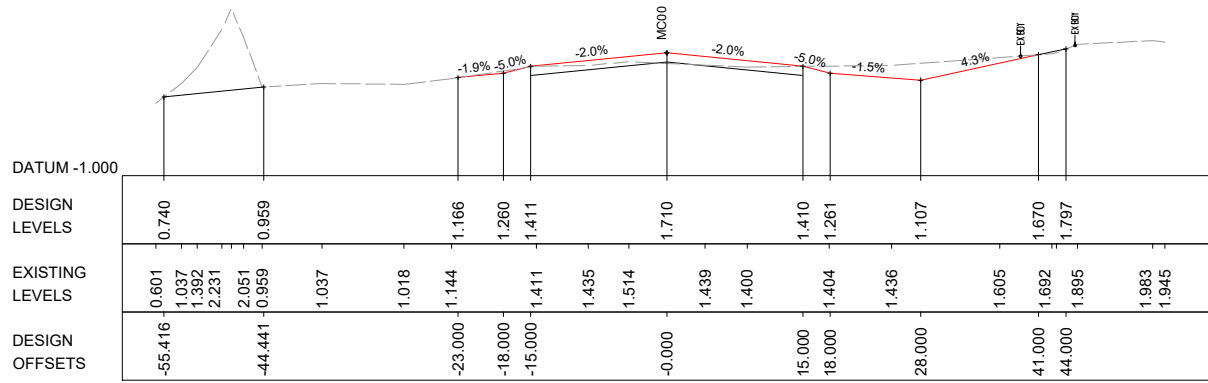
CH 1320.0



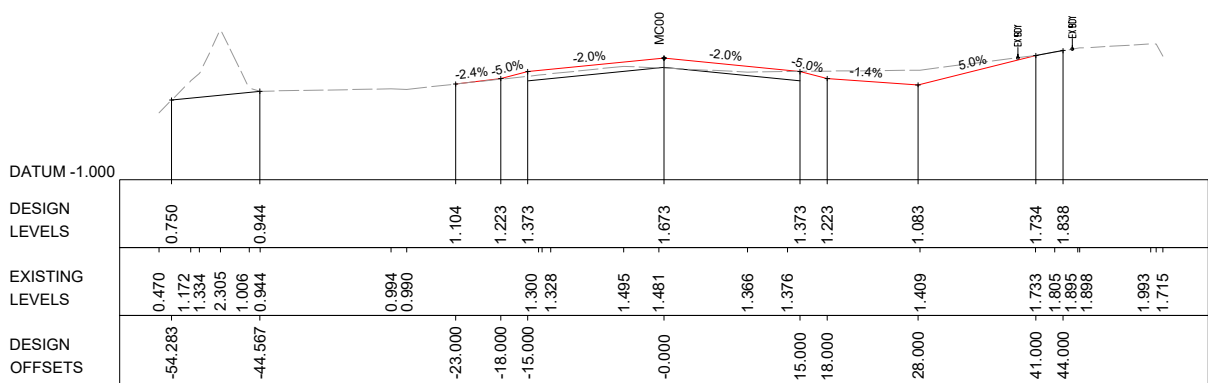
CH 1400.0



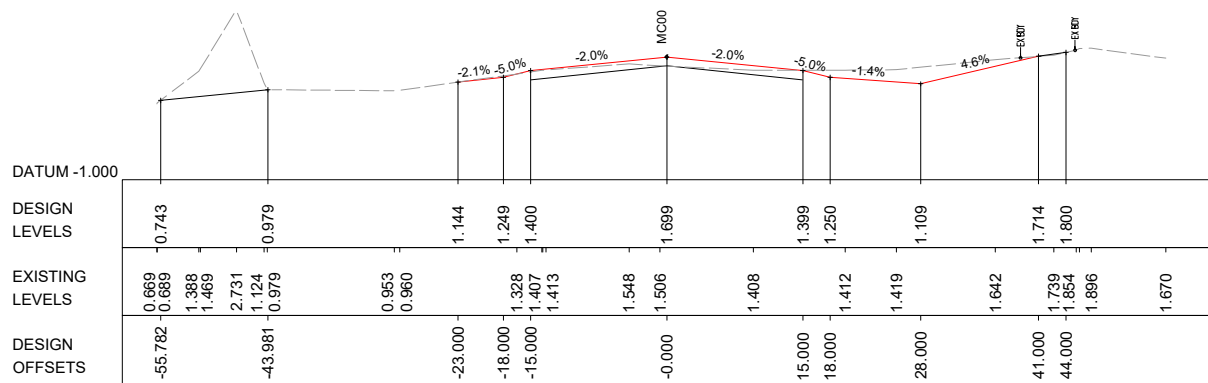
CH 1300.0



CH 1380.0



CH 1280.0



CH 1360.0

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES



**PROJECT TITLE**  
MANHIKI AIRPORT IMPROVEMENT

**DRAWING TITLE**  
CROSS SECTION - RUNWAY SHEET 9

**DESIGNED:** PPP  
**DRAWN:** PPP  
**CLIENT NAME:** MIG



**DATE:** 20.02.24  
**DATE:** 20.02.24  
**SCALES:** AS SHOWN

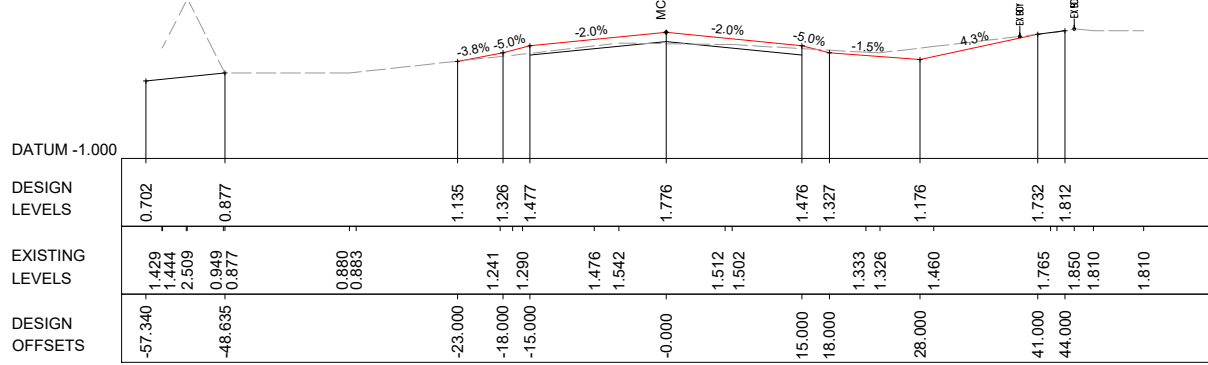
**CHECKED:** PPP  
**APPROVED:** ICI SECRETARY  
**DWG No.** 202401-MHX-CV-2015

**DATE:** 26.02.24  
**DATE:** 26.02.24  
**SHT No.** S17 OF S30

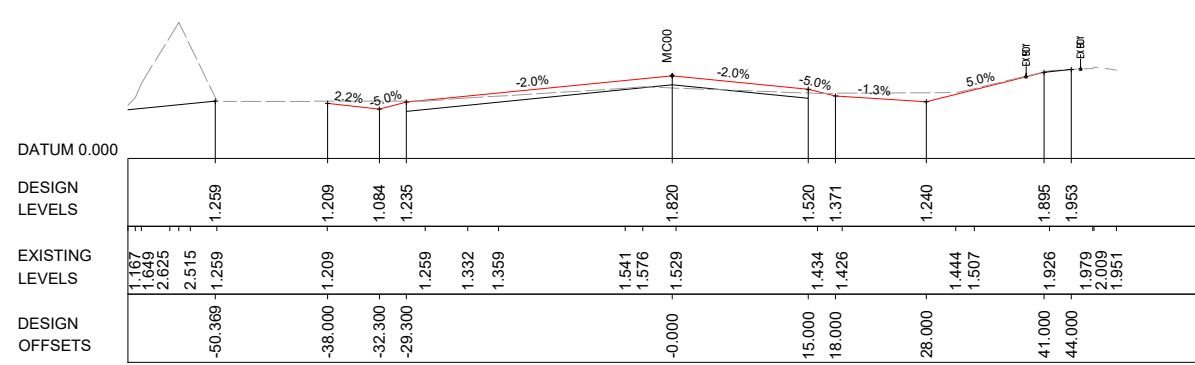


**LEGEND**

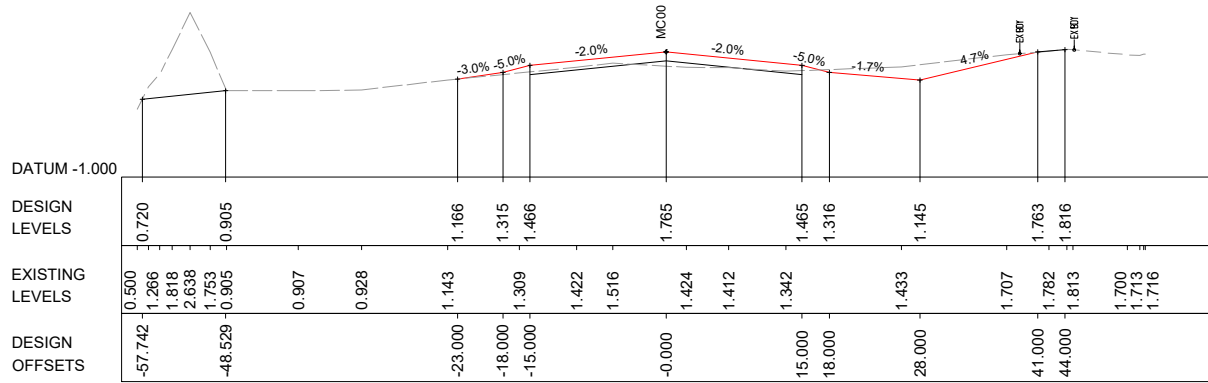
DESIGN SURFACE   
 EXISTING SURFACE 



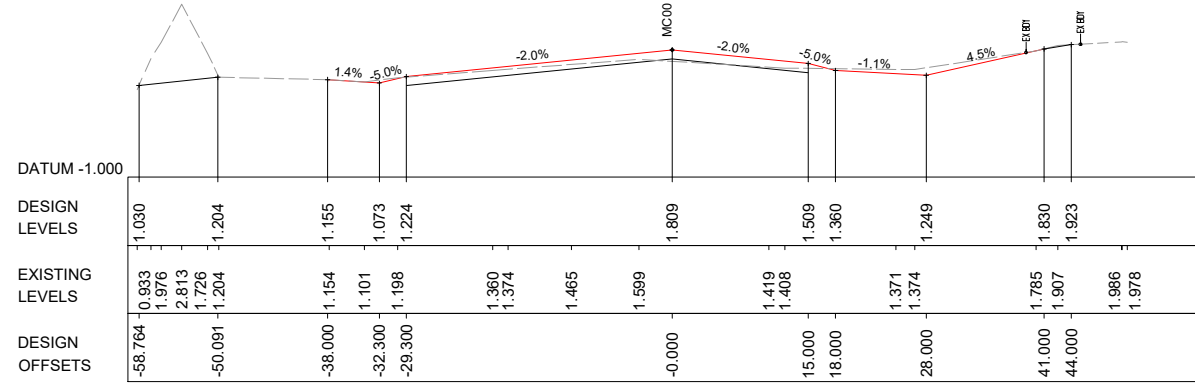
CH 1500.0



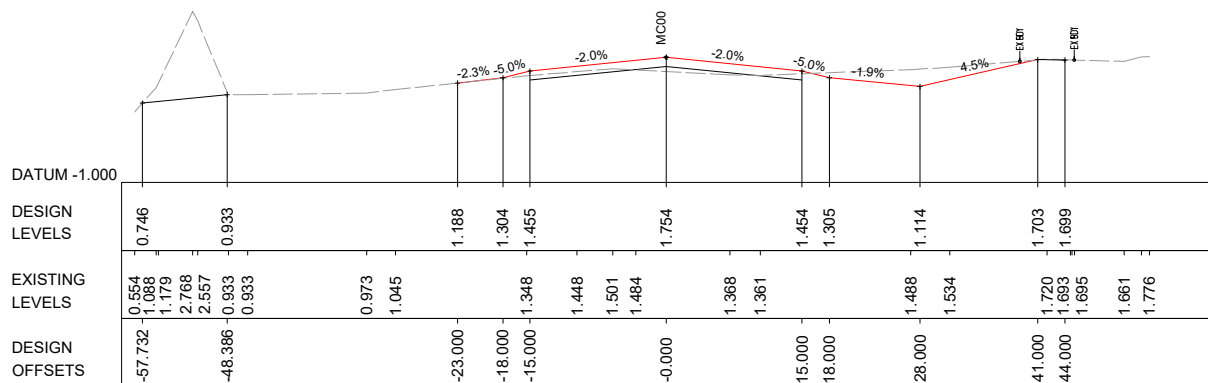
CH 1580.0



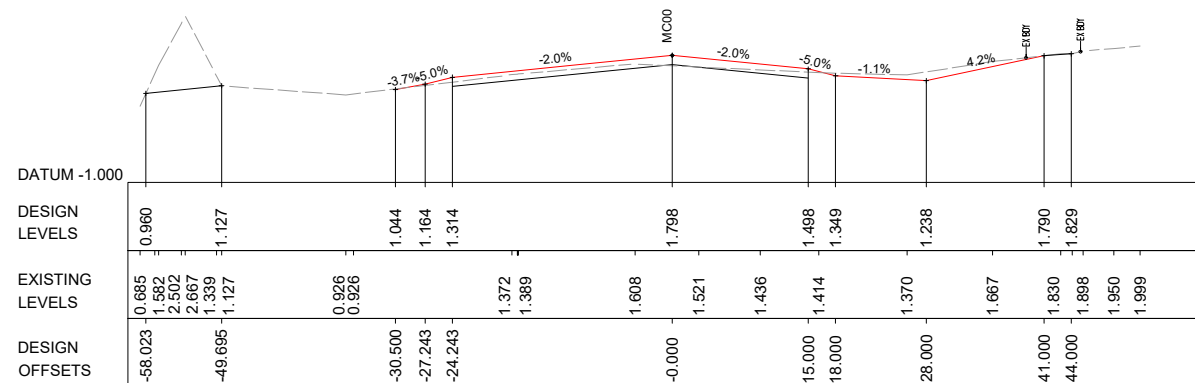
CH 1480.0



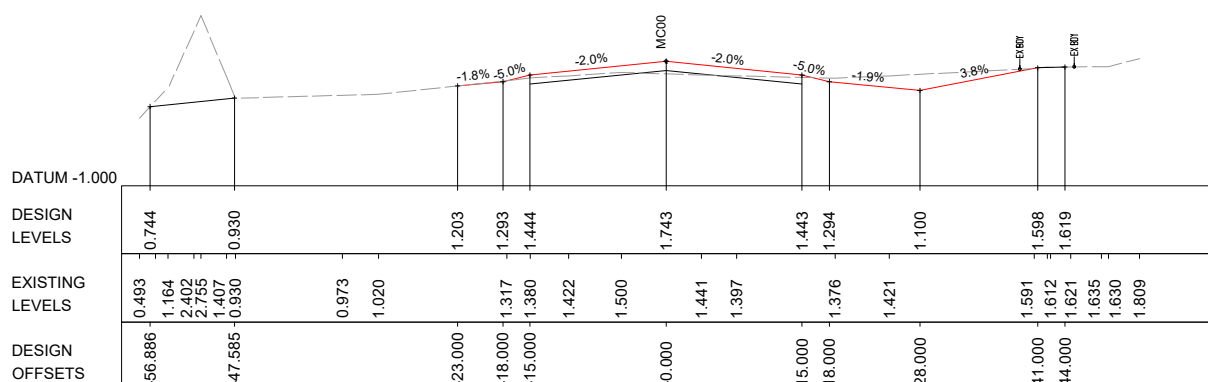
CH 1560.0



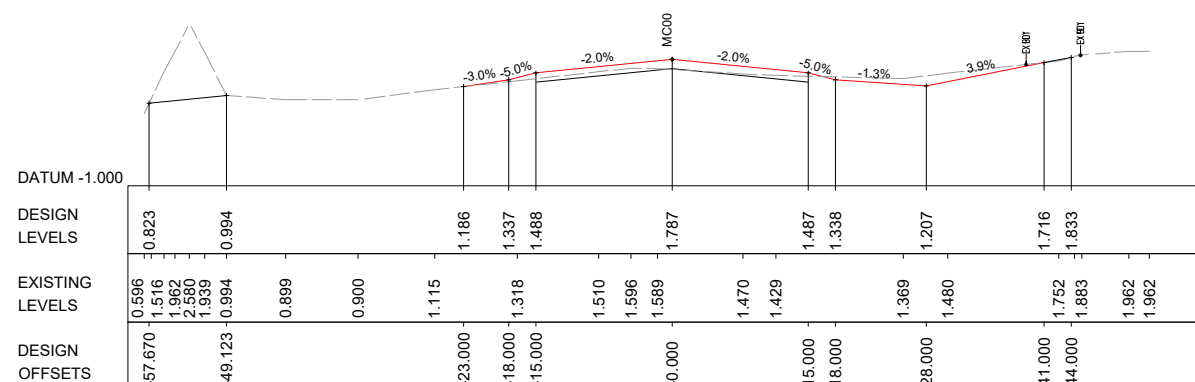
CH 1460.0



CH 1540.0



CH 1440.0



CH 1520.0

**NOT FOR CONSTRUCTION**

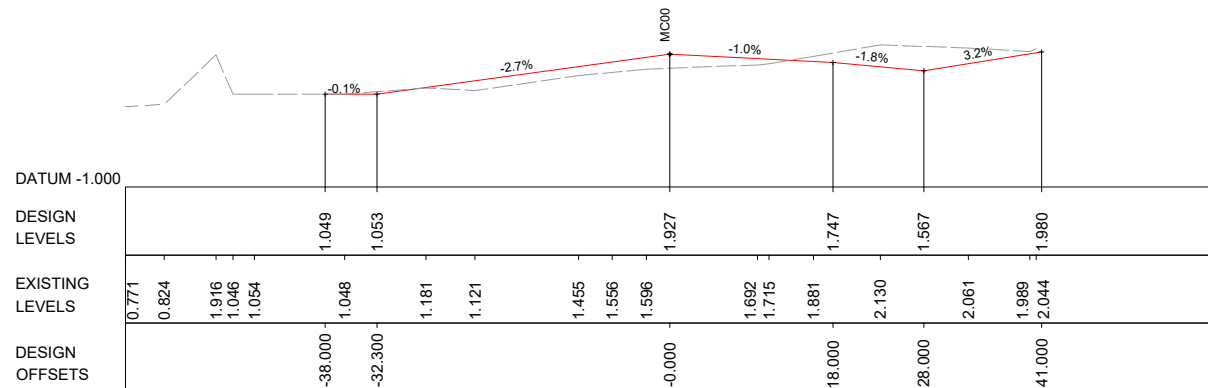
REVISION	BY	APPD	DATE	NOTES	 <p><b>PLANNING AND PROJECTS DIVISION</b>  <b>Infrastructure Cook Islands</b>                  PO Box 1111, Main Road Arorangi                  Raiatea, Cook Islands                  PH: 20321                  Fax: 24321                  Web: www.icl.gov.ck</p>	PROJECT TITLE	DESIGNED:	DATE:	CHECKED:	DATE:
						<p><b>MANHIKI AIRPORT IMPROVEMENT</b></p>	PPP	20.02.24	PPP	26.02.24
						<p><b>CROSS SECTION - RUNWAY SHEET 10</b></p>	PPP	20.02.24	IC SECRETARY	26.02.24
							CLIENT NAME:	SCALES:	DWG No.	SHT No.
							MIG	AS SHOWN	202401-MHX-CV-2016	S18 OF S30



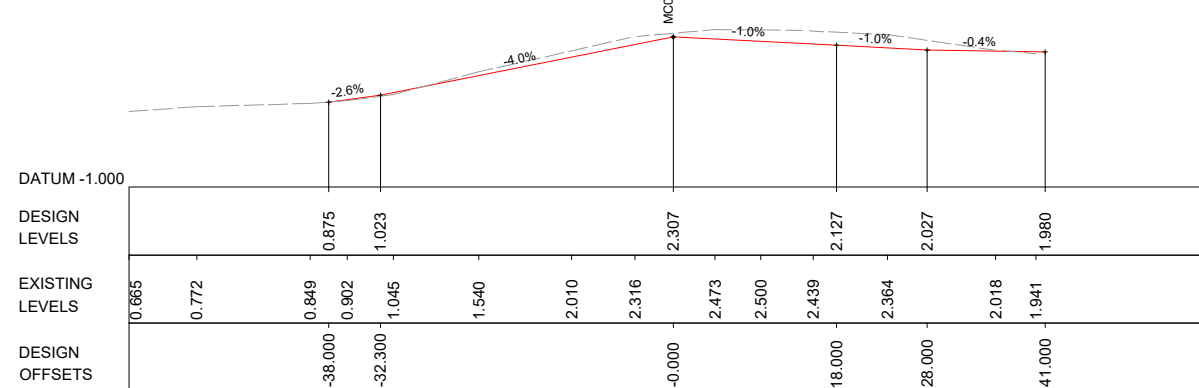


**LEGEND**

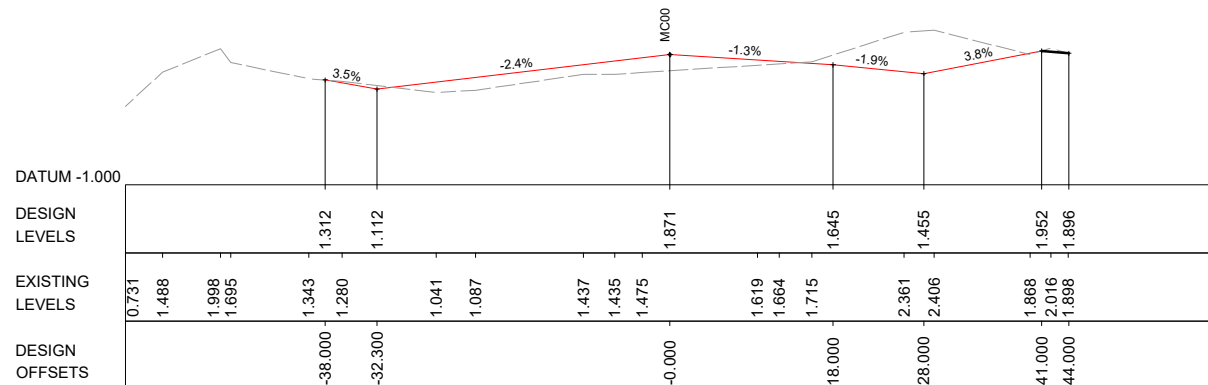
DESIGN SURFACE  
EXISTING SURFACE



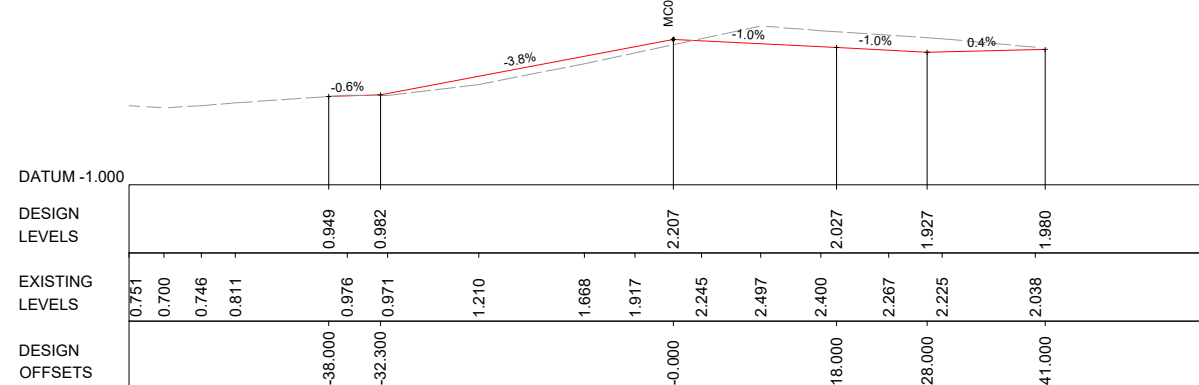
CH 1660.0



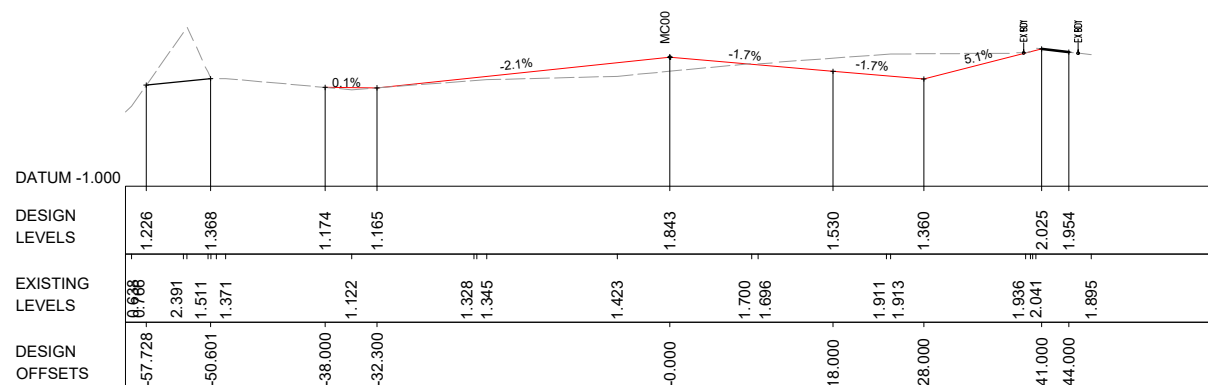
CH 1740.0



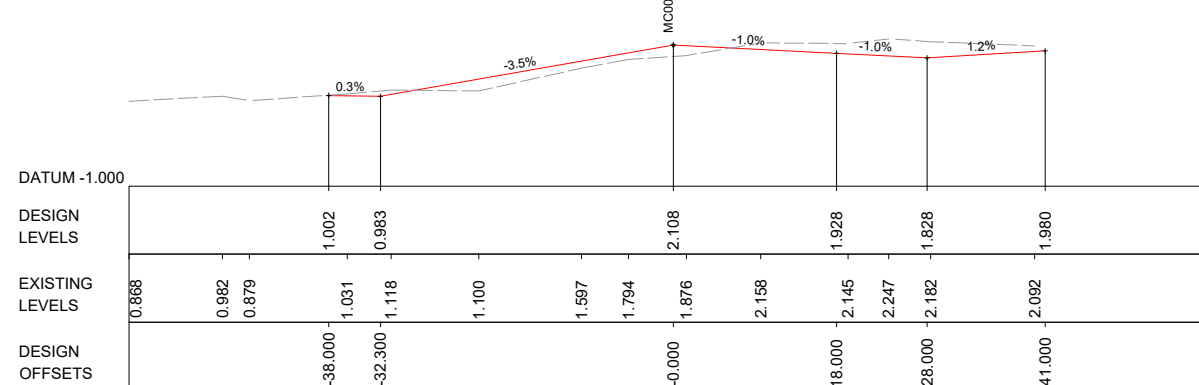
CH 1640.0



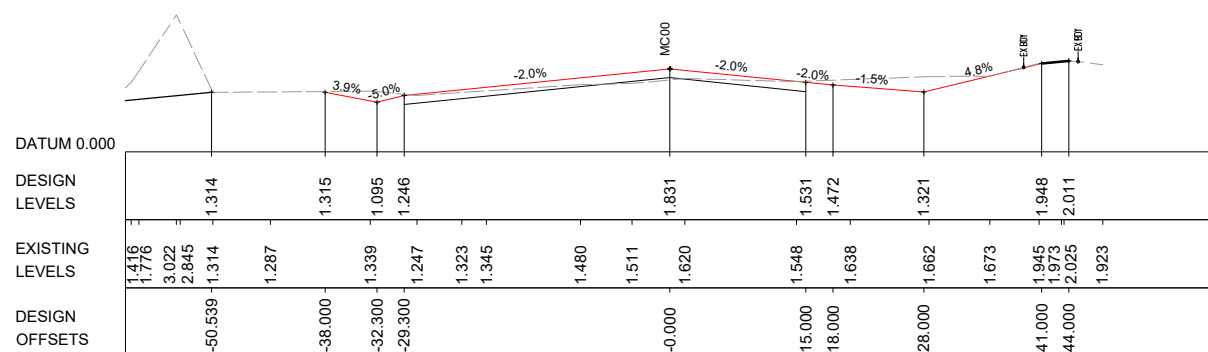
CH 1720.0



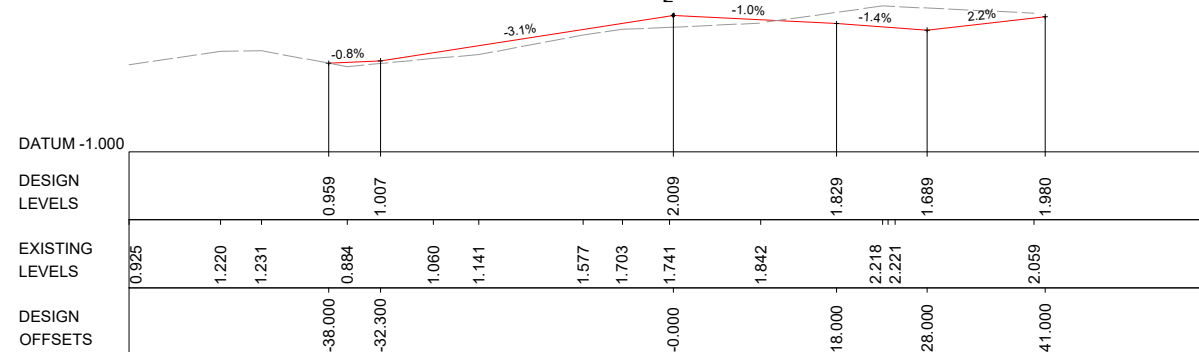
CH 1620.0



CH 1700.0



CH 1600.0



CH 1680.0

**NOT FOR CONSTRUCTION**

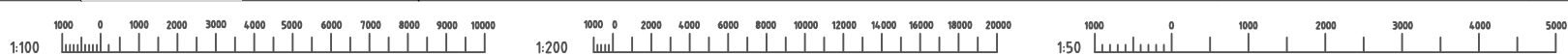
REVISION	BY	APPD	DATE	NOTES

**PLANNING AND PROJECTS DIVISION**  
**Infrastructure Cook Islands**  
 PO Box 1100  
 Main Road Arorangi  
 Rarotonga, Cook Islands  
 PH: 20321  
 Fax: 24321  
 Web: www.icl.gov.ck

**PROJECT TITLE**  
**MANHIKI AIRPORT IMPROVEMENT**

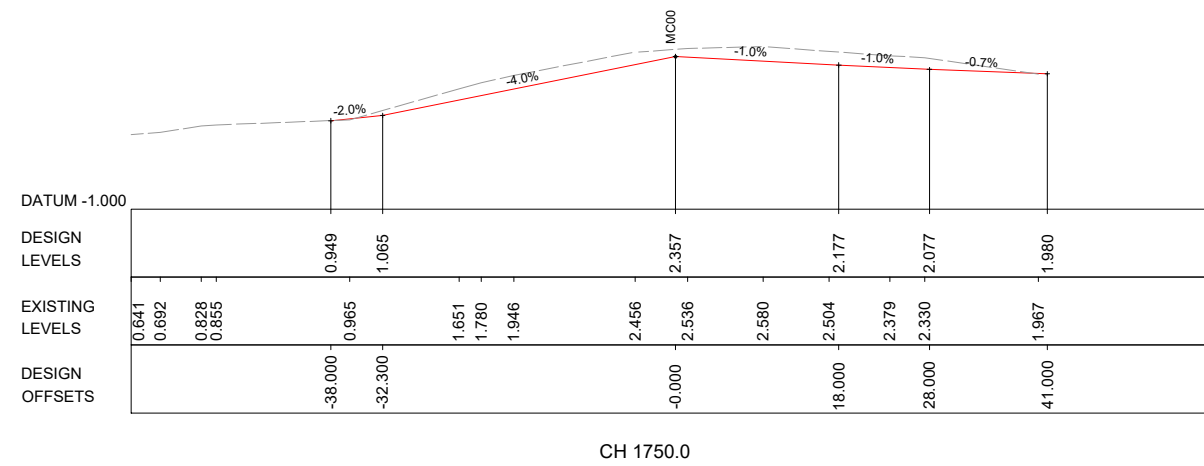
**DRAWING TITLE**  
**CROSS SECTION - RUNWAY SHEET 11**

DESIGNED: <b>PPP</b>	DATE: <b>20.02.24</b>	CHECKED: <b>PPP</b>	DATE: <b>26.02.24</b>
DRAWN: <b>PPP</b>	DATE: <b>20.02.24</b>	APPROVED: <b>ICI SECRETARY</b>	DATE: <b>26.02.24</b>
CLIENT NAME: <b>MIG</b>	SCALES: <b>AS SHOWN</b>	DWG No. <b>202401-MHX-CV-2017</b>	SHT No. <b>S19 OF S30</b>




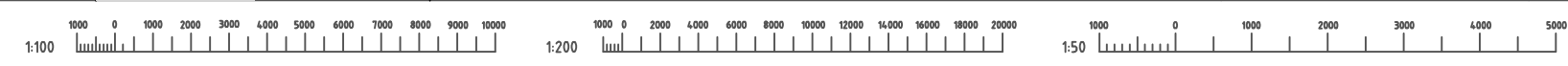
**LEGEND**

DESIGN SURFACE   
 EXISTING SURFACE 





**NOT FOR CONSTRUCTION**

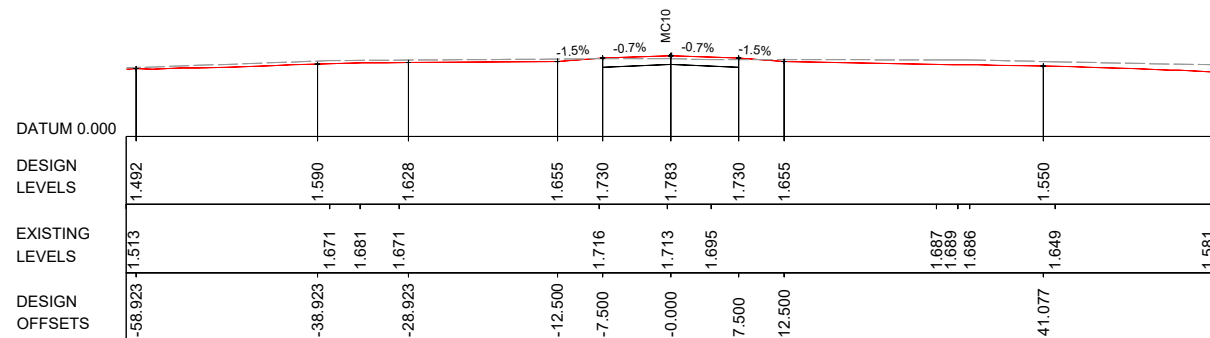
REVISION	BY	APP'D	DATE	NOTES	 <p><b>PLANNING AND PROJECTS DIVISION</b>  <b>Infrastructure Cook Islands</b>                  PO Box 100                  Main Road Arorangi                  Rarotonga, Cook Islands                  PH: 20321                  Fax: 24321                  Web: www.icl.gov.ck</p>	PROJECT TITLE	DESIGNED:	DATE:	CHECKED:	DATE:
						MANIHIKI AIRPORT IMPROVEMENT	PPP	20.02.24	PPP	26.02.24
						DRAWING TITLE	DRAWN:	DATE:	APPROVED:	DATE:
						CROSS SECTION - RUNWAY SHEET 12	PPP	20.02.24	ICI SECRETARY	26.02.24
							CLIENT NAME:	SCALES:	DWG No.	SHT No.
						MIG	AS SHOWN	202401-MHX-CV-2018	S20 OF S30	



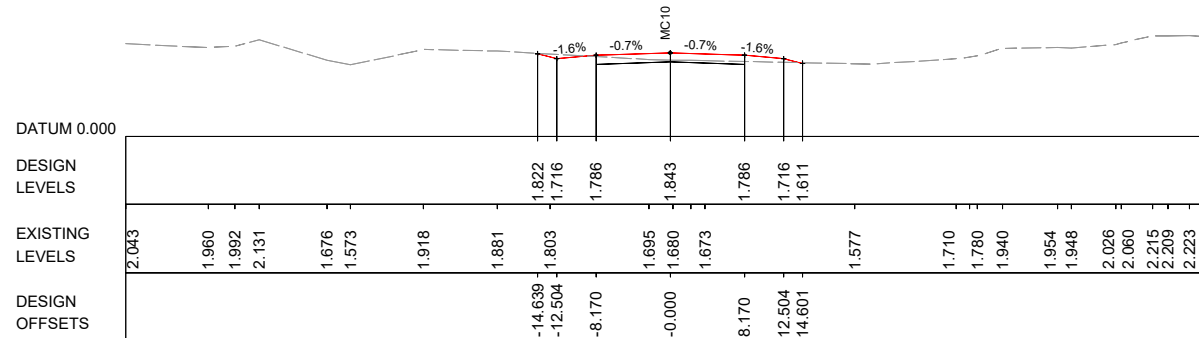


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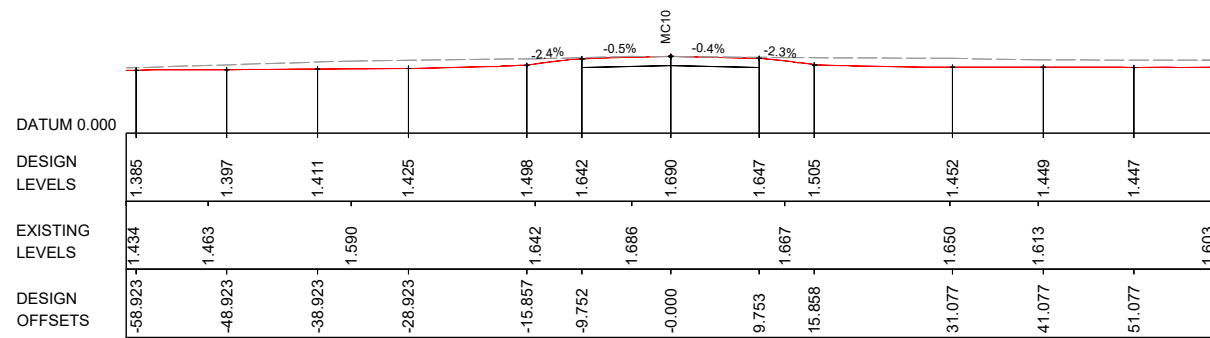
DESIGN SURFACE   
 EXISTING SURFACE 



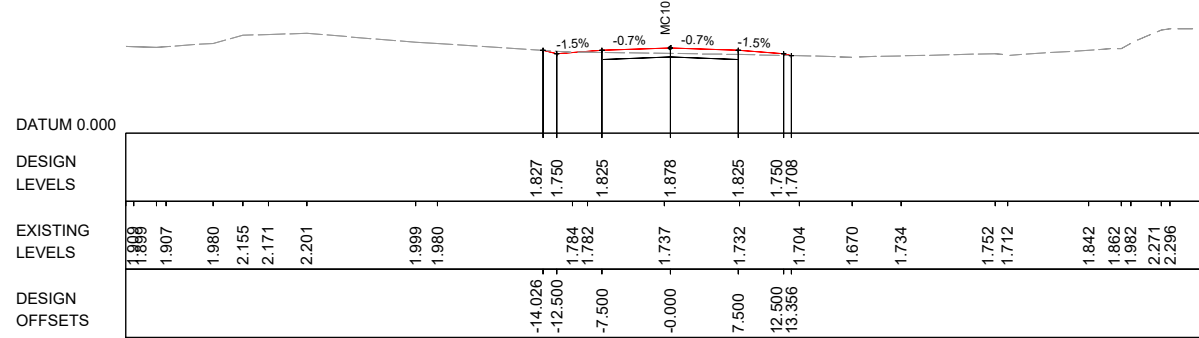
CH 30.0



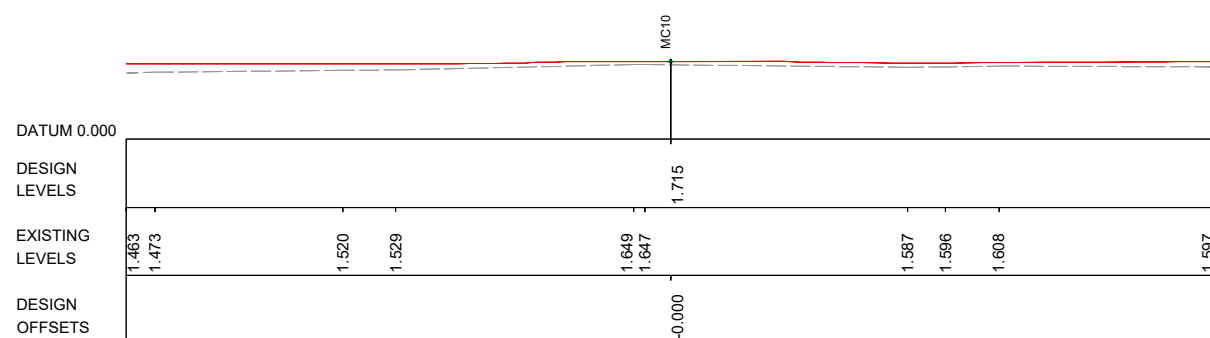
CH 70.0



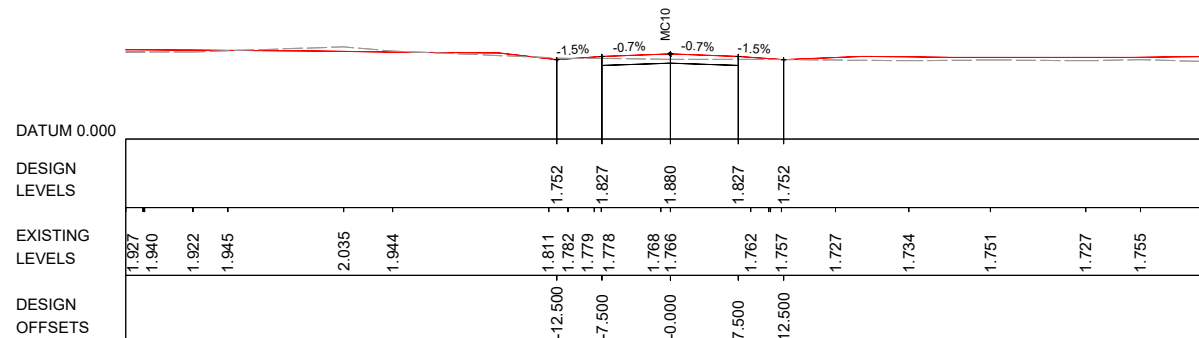
CH 20.0



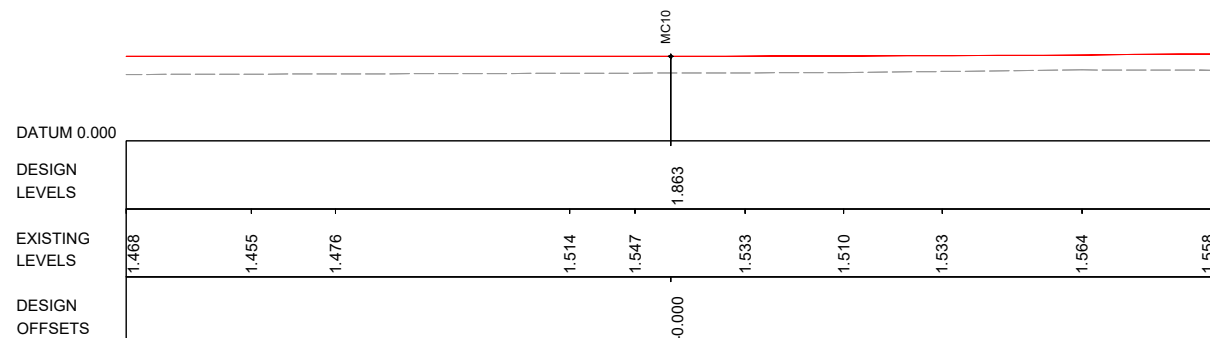
CH 60.0



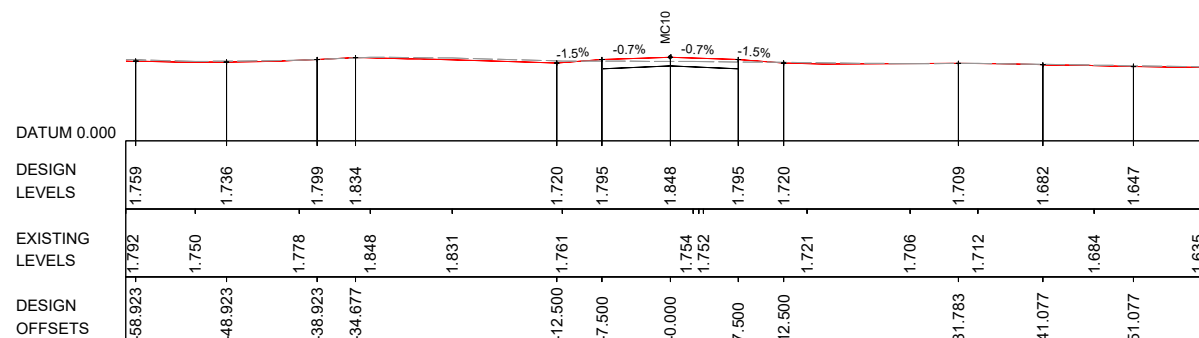
CH 10.0



CH 50.0



CH 0.0





CH 40.0

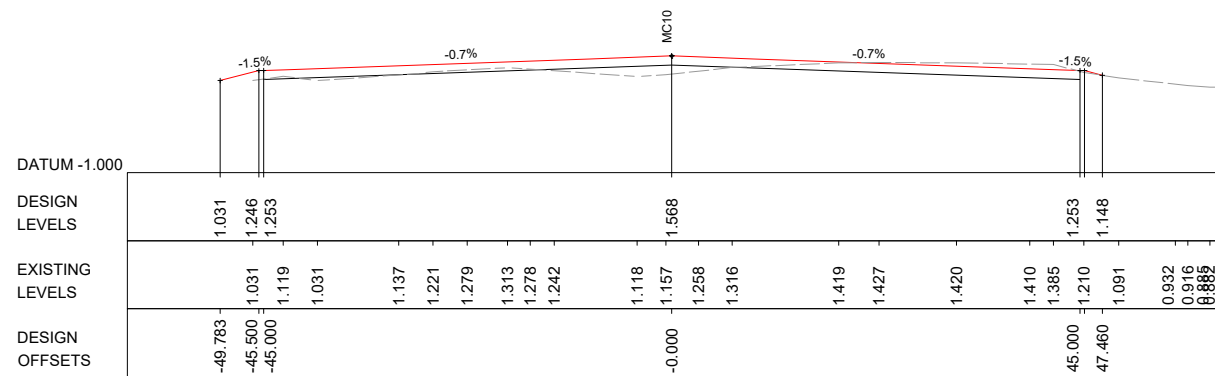
**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES	 <p><b>PLANNING AND PROJECTS DIVISION</b>  <b>Infrastructure Cook Islands</b>                  PO Box 1000                  Main Road Arorangi                  Rarotonga, Cook Islands                  PH: 20321                  Fax: 24321                  Web: www.icl.gov.ck</p>	PROJECT TITLE	DESIGNED:	DATE:	CHECKED:	DATE:
						<p><b>MANHIKI AIRPORT IMPROVEMENT</b></p>	PPP	20.02.24	PPP	26.02.24
						<p><b>CROSS SECTION - APRON SHEET 1</b></p>	PPP	20.02.24	IC SECRETARY	26.02.24
							CLIENT NAME:	SCALES:	DWG No.	SHT No.
							MIG	AS SHOWN	202401-MHX-CV-2019	S21 OF S30

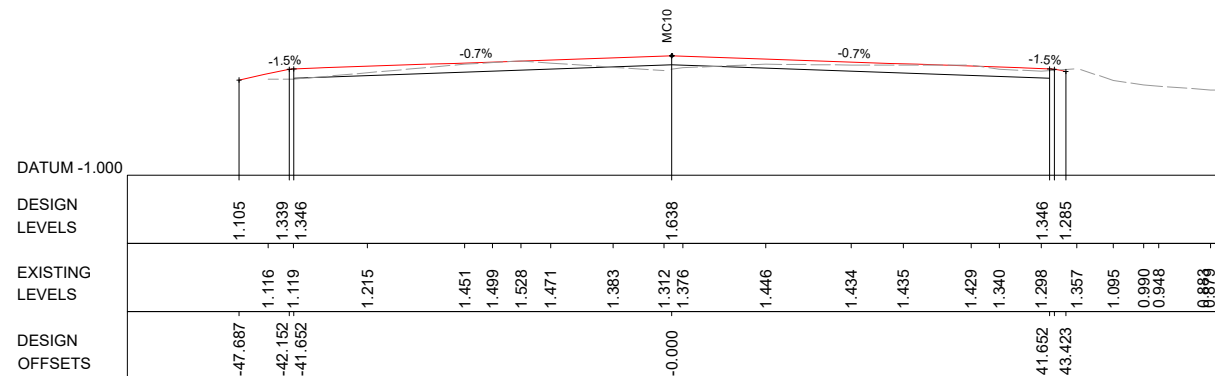


**LEGEND**

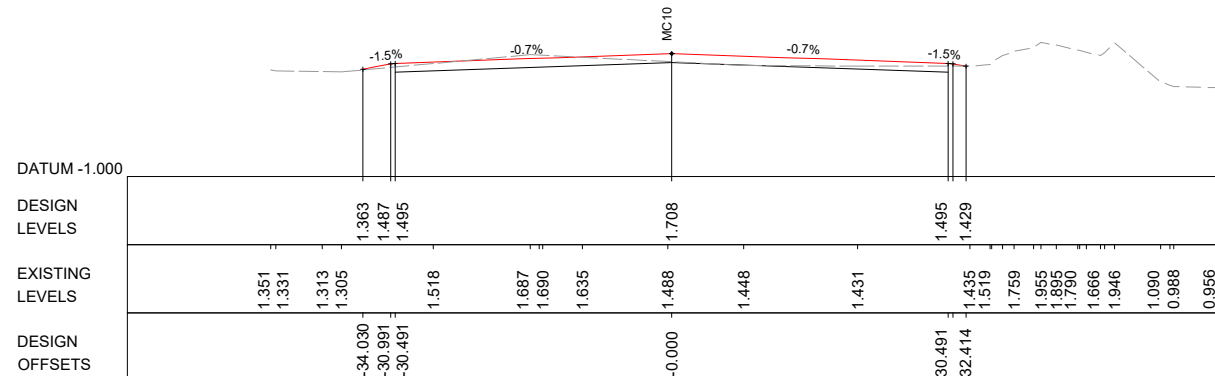
DESIGN SURFACE   
 EXISTING SURFACE 



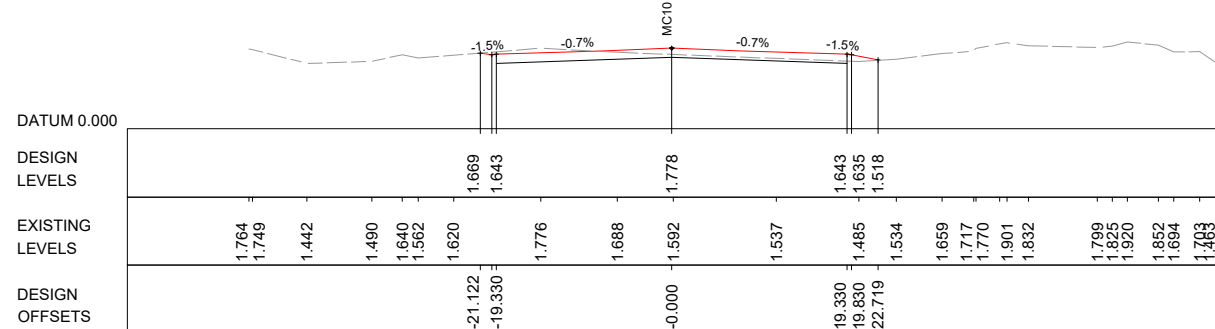
CH 110.0



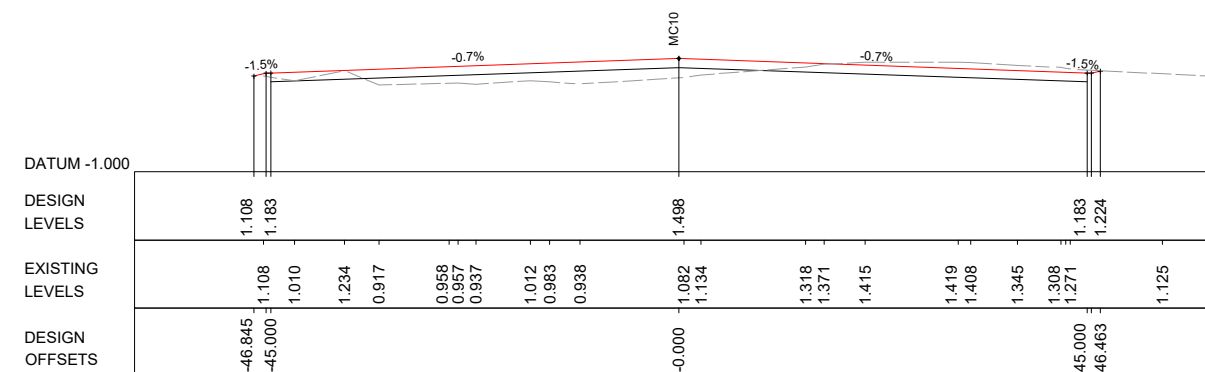
CH 100.0



CH 90.0



CH 80.0



CH 120.0

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES



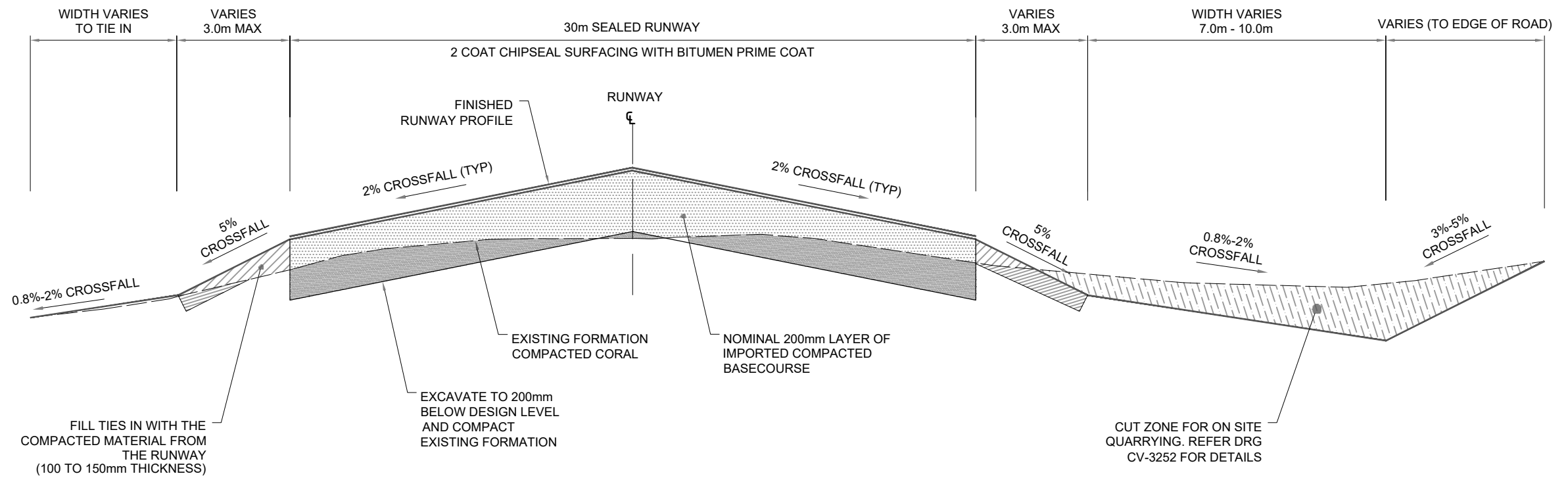
PROJECT TITLE  
**MANHIKI AIRPORT IMPROVEMENT**

DRAWING TITLE  
**CROSS SECTION - APRON SHEET 2**

DESIGNED: <b>PPP</b>	DATE: <b>20.02.24</b>	CHECKED: <b>PPP</b>	DATE: <b>26.02.24</b>
DRAWN: <b>PPP</b>	DATE: <b>20.02.24</b>	APPROVED: <b>ICI SECRETARY</b>	DATE: <b>26.02.24</b>
CLIENT NAME: <b>MIG</b>	SCALES: <b>AS SHOWN</b>	DWG No. <b>202401-MHX-CV-2020</b>	SHT No. <b>S22 OF S30</b>






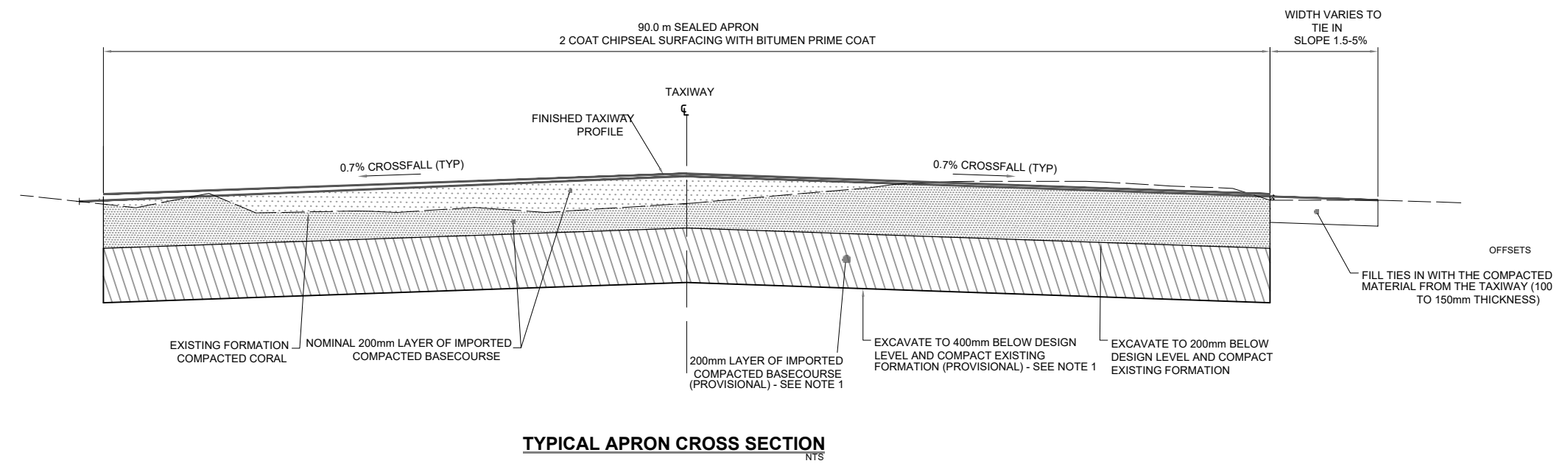
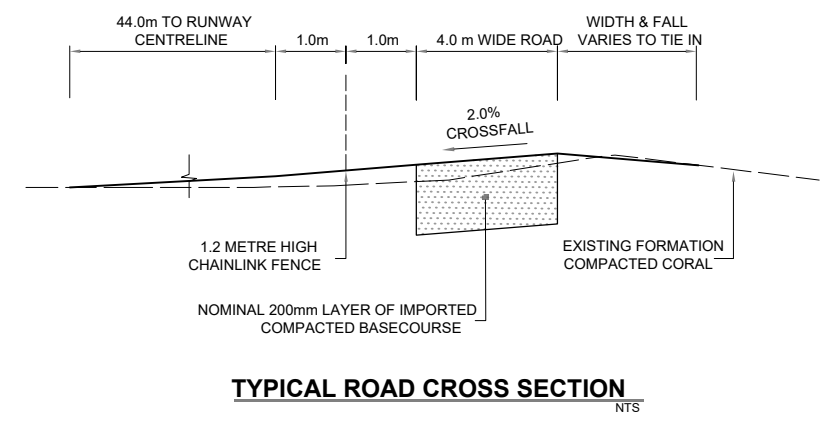
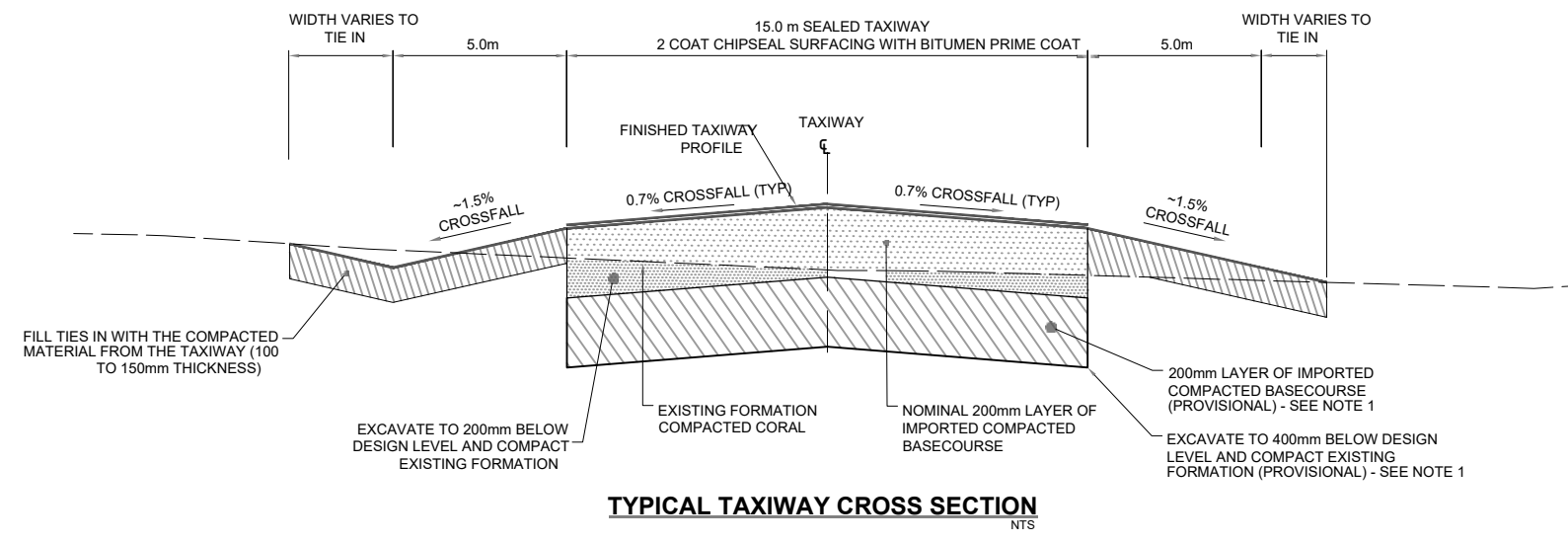


**TYPICAL RUNWAY & SHAPE CORRECTION SECTION**  
N.T.S

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES	PLANNING AND PROJECTS DIVISION		PROJECT TITLE	DESIGNED:	DATE:	CHECKED:	DATE:	
					 <b>Infrastructure Cook Islands</b> PO Box 100 Main Road Arorangi Rarotonga, Cook Islands PH: 20321 Fax: 24321 Web: www.icl.gov.ck		<b>MANIHIKI AIRPORT IMPROVEMENT</b>	PPP	20.02.24	PPP	26.02.24	
								PPP	20.02.24	IC SECRETARY	26.02.24	
								<b>TYPICAL CROSS SECTION - RUNWAY</b>	CLIENT NAME:	SCALES:	DWG No.	SHT No.
									<b>MIG</b>	<b>AS SHOWN</b>	<b>202401-MHX-CV-2021</b>	<b>S23 OF S30</b>

NOTES:  
 1. THERE MAY NOT BE EXISTING PAVEMENT FORMATION LOCATED ON THE PROPOSED TAXIWAY AND APRON. AFTER THE INITIAL CUT TO DESIGN SUBGRADE LEVEL AND QA TESTING, 200mm UNDERCUT MAY BE INSTRUCTED BY THE ENGINEER'S REPRESENTATIVE WITH 200mm OF BASECOURSE REINSTATEMENT.



**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES

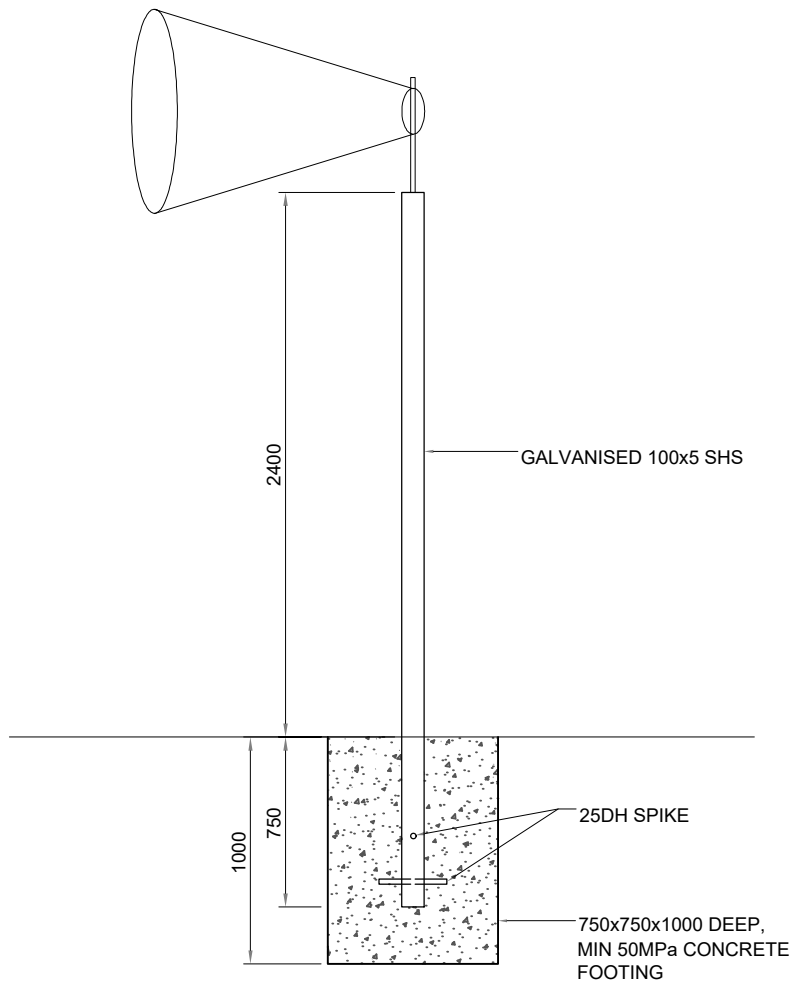
<b>PLANNING AND PROJECTS DIVISION</b>  <b>Infrastructure Cook Islands</b> PO Box 1000 Main Road Arorangi Rarotonga, Cook Islands PH: 20321 Fax: 24321 Web: www.icl.gov.ck	PROJECT TITLE <b>MANHIKI AIRPORT IMPROVEMENT</b>	DESIGNED: <b>PPP</b> DATE: <b>20.02.24</b> CHECKED: <b>PPP</b> DATE: <b>26.02.24</b>
	DRAWING TITLE <b>TYPICAL CROSS SECTION - TAXIWAY &amp; APRON</b>	DRAWN: <b>PPP</b> DATE: <b>20.02.24</b> APPROVED: <b>ICI SECRETARY</b> DATE: <b>26.02.24</b>
	CLIENT NAME: <b>MIG</b>	SCALES: <b>AS SHOWN</b> DWG No. <b>202401-MHX-CV-2022</b> SHT No. <b>S24 OF S30</b>



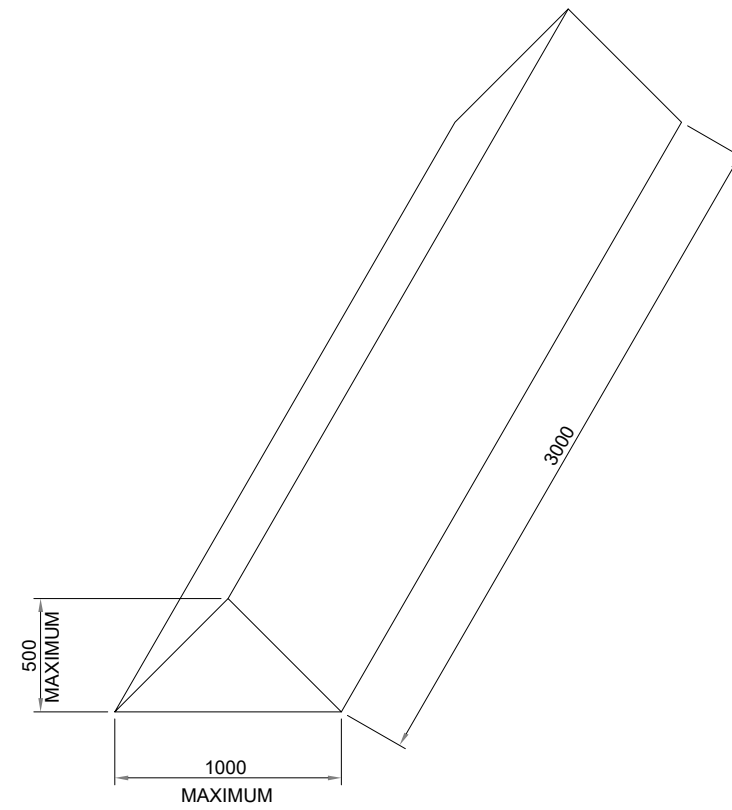


**NOTES:**

1. THE MARKER BOARDS SHALL BE A SINGLE COLOUR, ORANGE OR RED, OR TWO CONTRASTING COLOURS, ORANGE AND WHITE OR ALTERNATIVELY RED AND WHITE, EXCEPT WHERE SUCH COLOURS MERGE WITH THE BACKGROUND. A MARKER BOARD CAN BE FREE STANDING (NON-SECURED) IF IT HAS BEEN SUITABLY TESTED TO WITHSTAND LOCAL WIND SPEED ENVIRONMENT AND PROP WASH CONDITIONS.
2. THE WINDSOCK SHOULD BE IN THE FORM OF A TRUNCATED CONE MADE OF FABRIC AND SHOULD HAVE A LENGTH OF NOT LESS THAN 3.6m AND A DIAMETER, AT THE LARGER END, OF NOT LESS THAN 0.9m. IT SHOULD BE COLOURED LIGHT ORANGE OR WHITE AND CONSTRUCTED SO THAT IT GIVES A CLEAR INDICATION OF THE DIRECTION OF SURFACE WIND AND A GENERAL INDICATION OF WIND SPEED WHEN SEEN FROM A HEIGHT OF 300m.



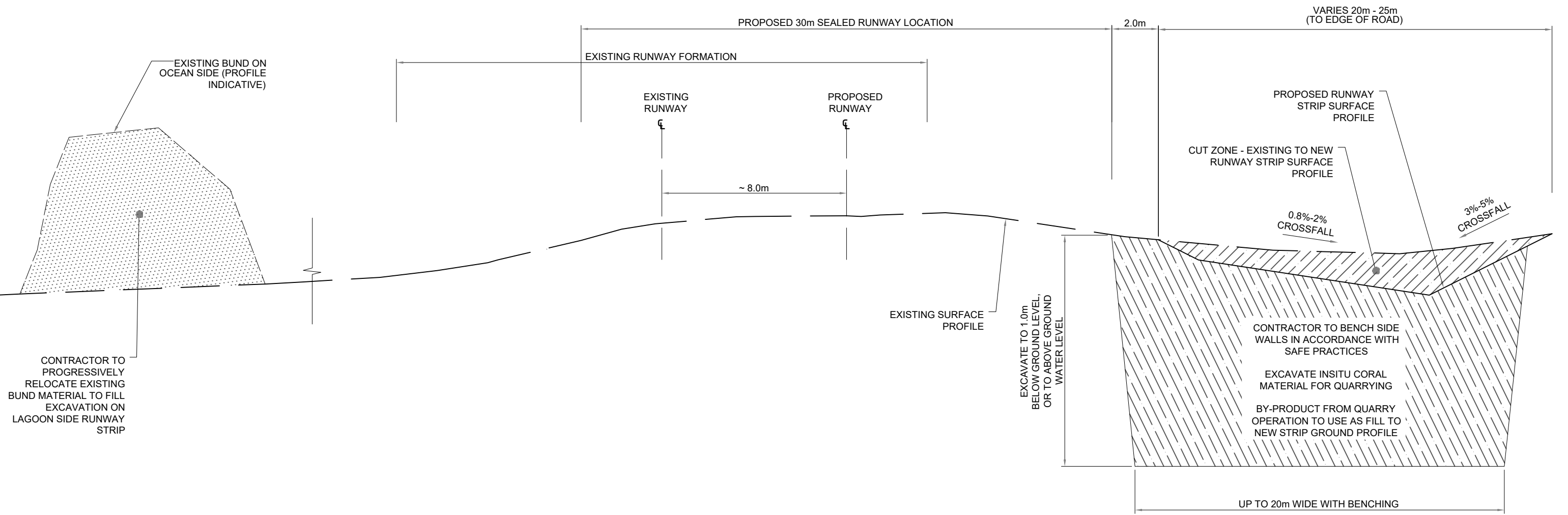
**WINDSOCK POST**  
Scale 1:35



**MARKER BOARD DETAIL**  
Scale 1:35

**NOT FOR CONSTRUCTION**


REVISION	BY	APPD	DATE	NOTES	PLANNING AND PROJECTS DIVISION	PROJECT TITLE	DESIGNED:	DATE:	CHECKED:	DATE:		
					 <p><b>Infrastructure Cook Islands</b> PO Box 1111 Main Road Arorangi Rarotonga, Cook Islands PH: 20321 Fax: 24321 Web: www.icl.gov.ck</p>	<p><b>MANIHIKI AIRPORT IMPROVEMENT</b></p> <p>DRAWING TITLE</p> <p><b>WINDSOCK &amp; MARKER BOARD DETAILS</b></p>	PPP	20.02.24	PPP	26.02.24		
				PPP			20.02.24	APPROVED:	ICI SECRETARY	26.02.24		
							CLIENT NAME:	MIG	SCALES:	AS SHOWN	DWG No.	202401-MHX-CV-2023



**TYPICAL RUNWAY STRIP EXCAVATION FOR QUARRYING SECTION**

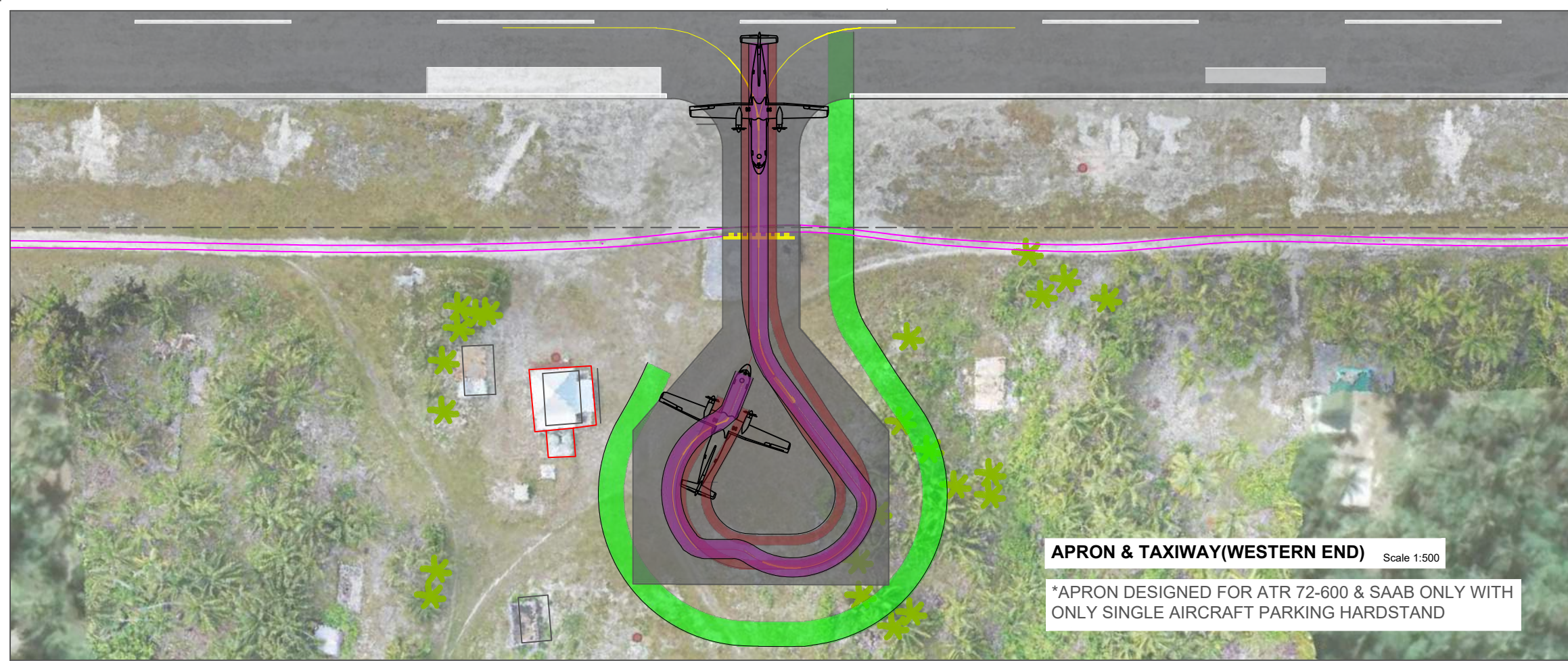
NTS

**NOT FOR CONSTRUCTION**

REVISION	BY	APP'D	DATE	NOTES	PLANNING AND PROJECTS DIVISION	PROJECT TITLE	DESIGNED:	DATE:	CHECKED:	DATE:	
					 <b>Infrastructure Cook Islands</b> PO Box 100 Main Road Arorangi Rarotonga, Cook Islands PH: 20321 Fax: 24321 Web: www.icl.gov.ck	<b>MANIHIKI AIRPORT IMPROVEMENT</b>  <b>TYPICAL QUARRY EXCAVATION PLAN</b>	PPP	20.02.24	PPP	26.02.24	
				PPP			20.02.24	APPROVED:	ICI SECRETARY	26.02.24	
				MIG			AS SHOWN	DWG No.	202401-MHX-CV-2024	SHT No.	S26 OF S30







**APRON & TAXIWAY(WESTERN END)** Scale 1:500

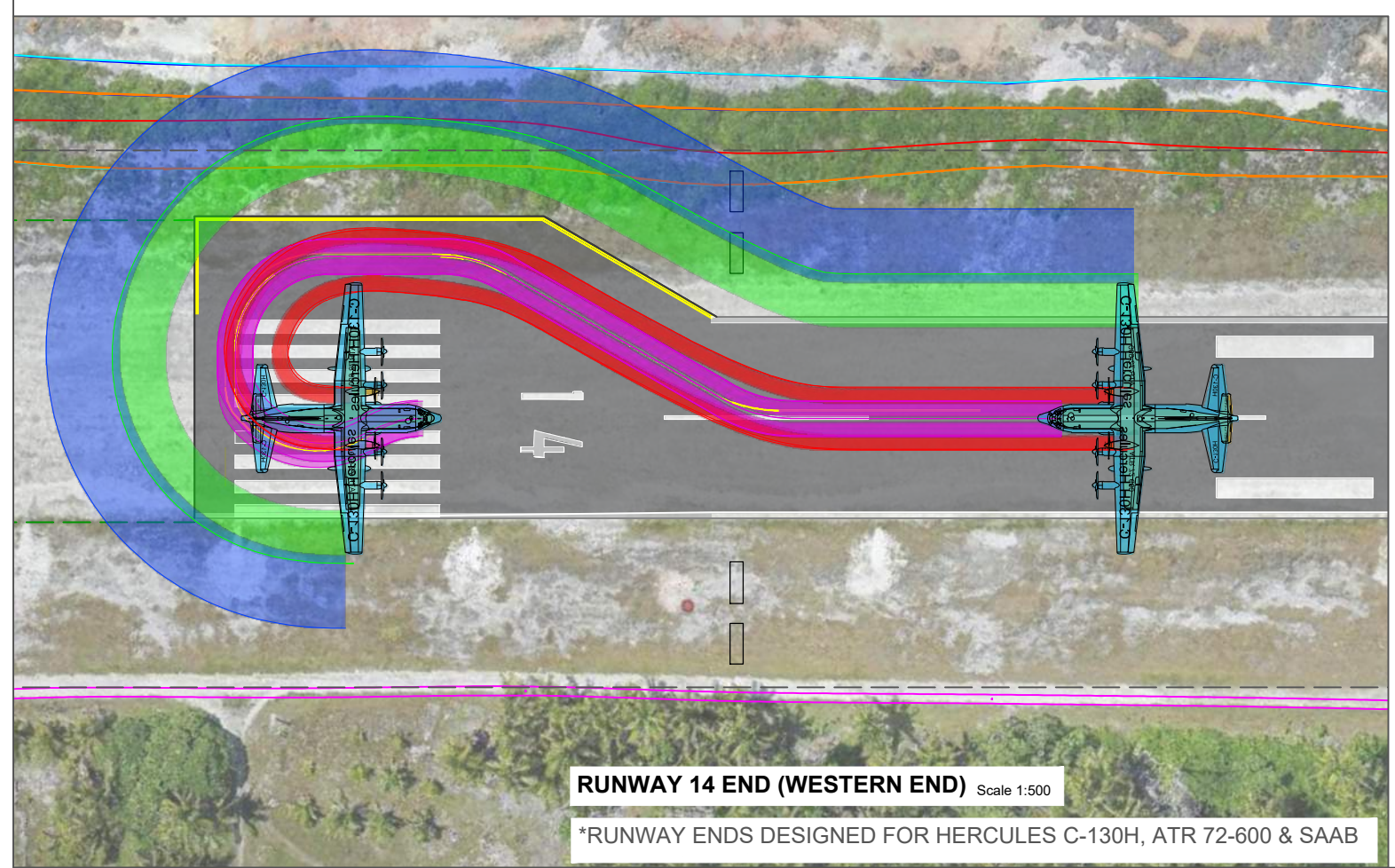
\*APRON DESIGNED FOR ATR 72-600 & SAAB ONLY WITH ONLY SINGLE AIRCRAFT PARKING HARDSTAND

**LEGEND**

- RUNWAY
- RUNWAY STRIP
- TAXIWAY & APRON
- STRIP END & RESA
- EXISTING ROAD
- TOP OF BANK
- HIGH WATER MARK
- COASTAL BUND
- RUNWAY CENTRELINE
- 4.5m WING TIP CLEARANCE
- 7.5m WING TIP CLEARANCE
- MAIN GEAR CLEARANCE
- NOSE GEAR CLEARANCE

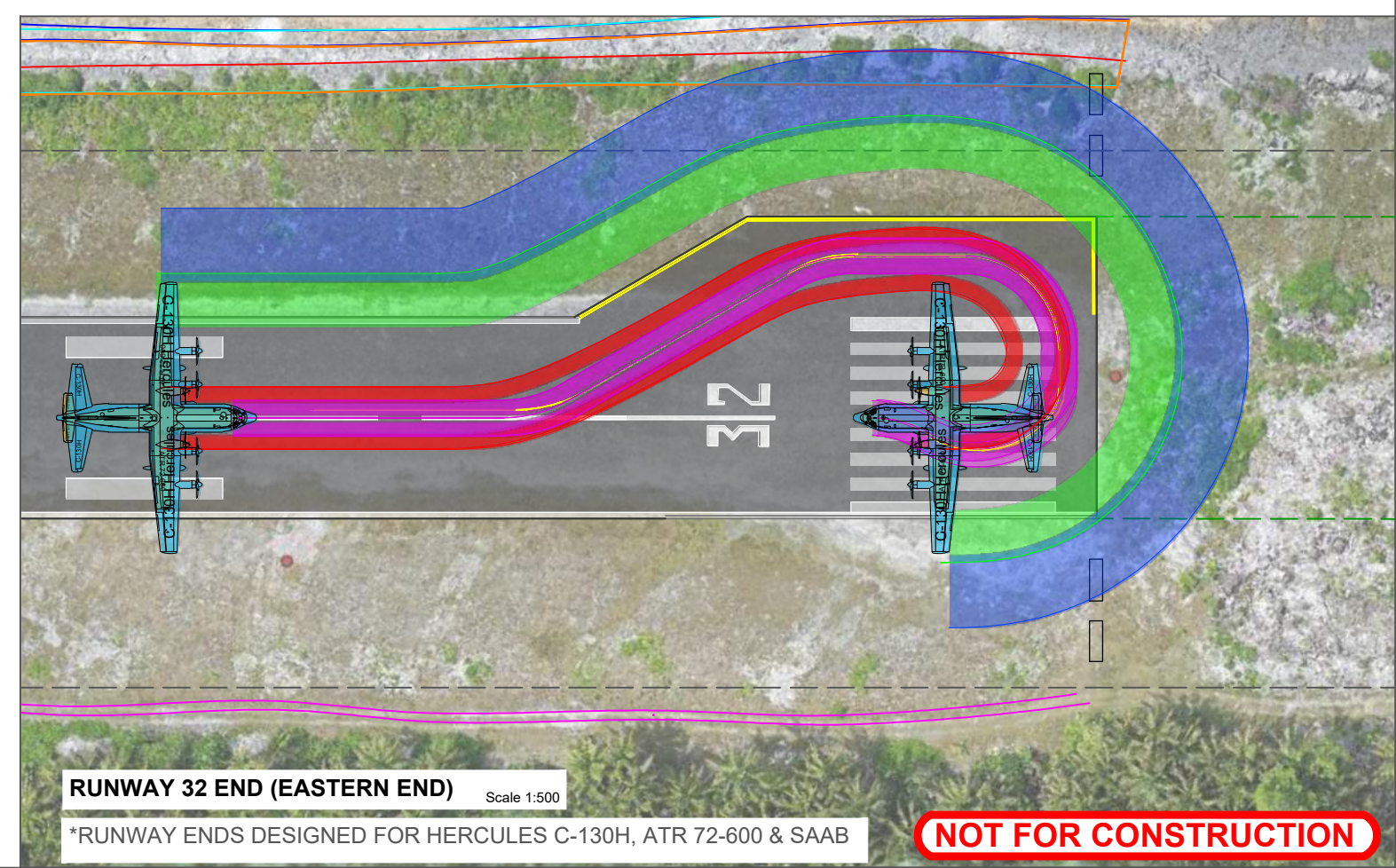
**NOTES:**

1. AIRCRAFT MODELS, DIMENSIONAL DATA, TRACKING MODELING ARE GENERATED FROM INDUSTRIAL STANDARD SOFTWARE AviPLAN AIRSIDE PRO.
2. TRACKING HAS BEEN CHECKED USING NOSE GEAR TRACK AND PILOT'S EYE FROM AviPLAN AIRSIDE PRO



**RUNWAY 14 END (WESTERN END)** Scale 1:500

\*RUNWAY ENDS DESIGNED FOR HERCULES C-130H, ATR 72-600 & SAAB



**RUNWAY 32 END (EASTERN END)** Scale 1:500

\*RUNWAY ENDS DESIGNED FOR HERCULES C-130H, ATR 72-600 & SAAB

NOT FOR CONSTRUCTION

REVISION	BY	APP'D	DATE	NOTES

**PLANNING AND PROJECTS DIVISION**

**Infrastructure Cook Islands**

PO Box 100  
Main Road Arorangi  
Rarotonga, Cook Islands  
PH: 20321  
Fax: 24321  
Web: www.icl.gov.ck

PROJECT TITLE	MANIHIKI AIRPORT IMPROVEMENT
DRAWING TITLE	RUNWAY ENDS AIRCRAFT TRACKING

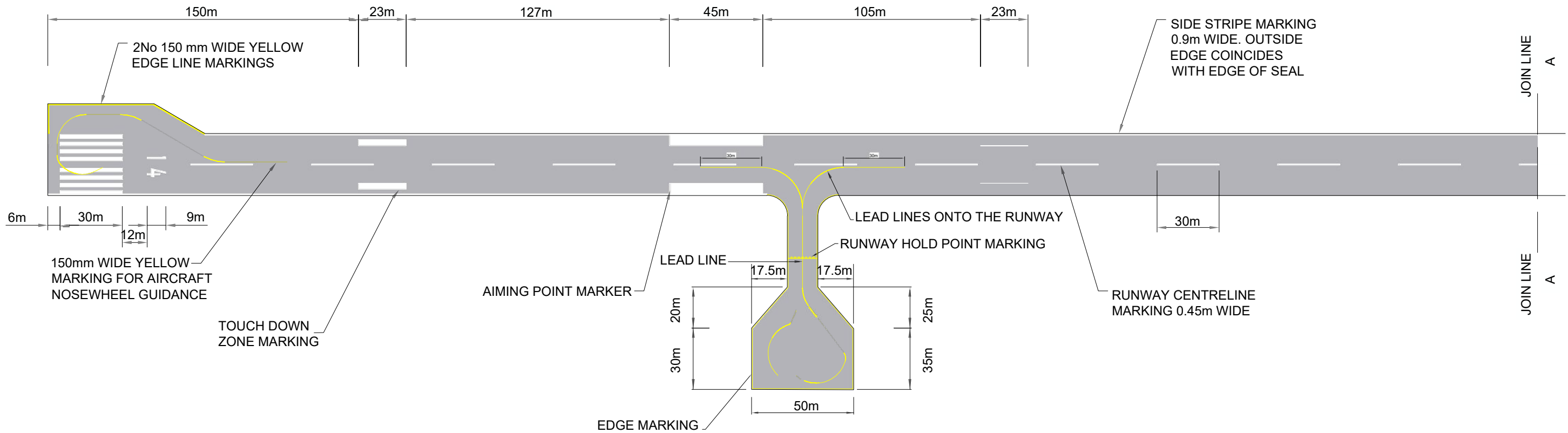
DESIGNED: PPP	DATE: 20.02.24	CHECKED: PPP	DATE: 26.02.24
DRAWN: PPP	DATE: 20.02.24	APPROVED: ICI SECRETARY	DATE: 26.02.24
CLIENT NAME: MIG	SCALES: AS SHOWN	DWG No. 202401-MHX-CV-2025	SHT No. S27 OF S30





**NOTES:**

1. PAINT MARKINGS TO BE IN ACCORDANCE WITH NZ CAA AC139-6
2. REFER TO NOTES ON DRG 202401-MHX-CV-2027

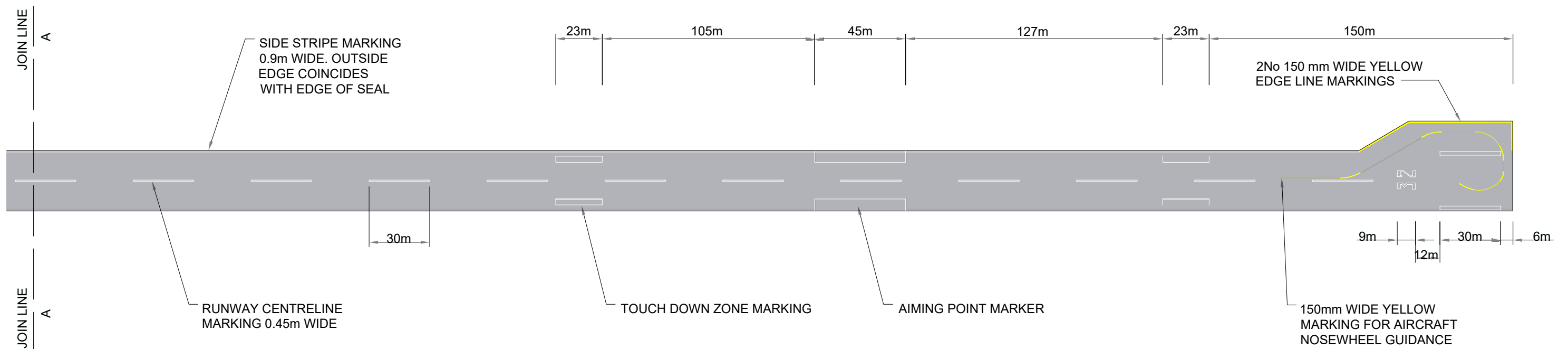


**RUNWAY 14 END (NORTHERN END)**

Scale 1:1500

**TAXIWAY AND APRON**

Scale 1:1500



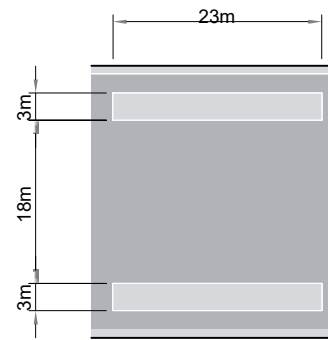
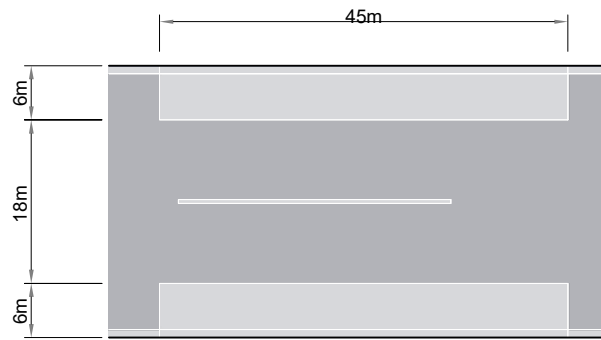
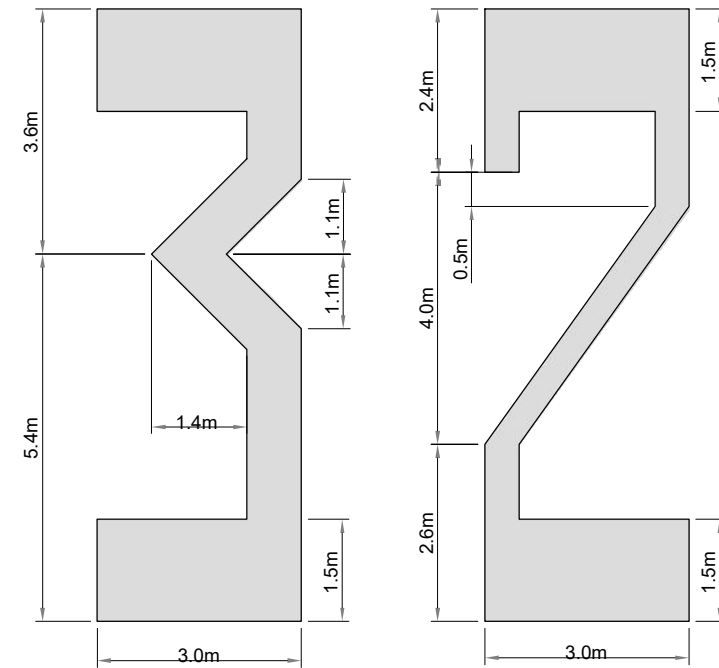
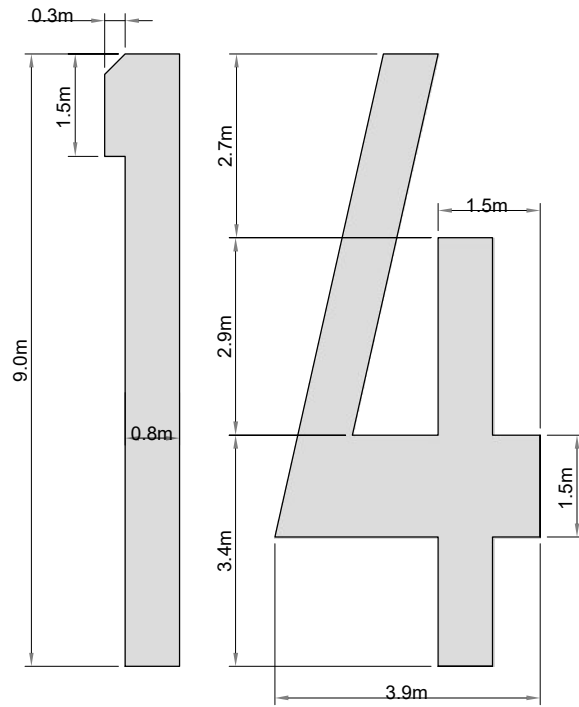
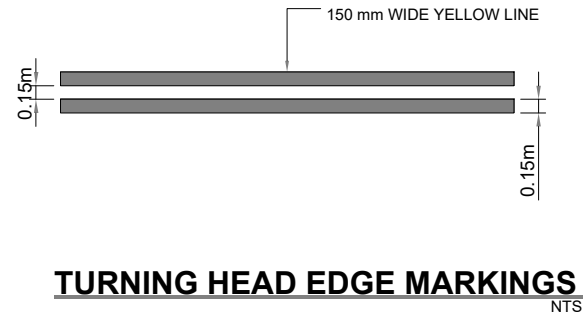
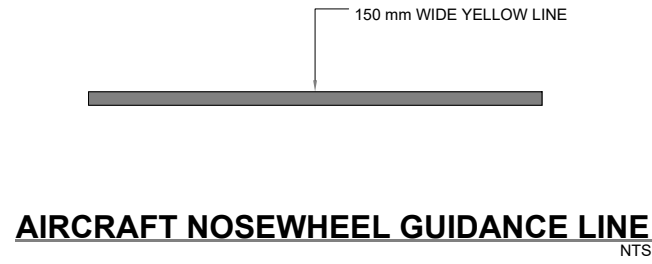
**RUNWAY 32 END (SOUTHERN END)**

Scale 1:1500

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES	PLANNING AND PROJECTS DIVISION		PROJECT TITLE	DESIGNED:	DATE:	CHECKED:	DATE:	
					 <b>Infrastructure Cook Islands</b> PO Box 1000 Main Road Arorangi Rarotonga, Cook Islands PH: 20321 Fax: 24321 Web: www.icl.gov.ck		<b>MANHIKI AIRPORT IMPROVEMENT</b>  <b>RUNWAY LINE MARKING PLAN</b>	PPP	20.02.24	PPP	26.02.24	
				PPP				20.02.24	APPROVED:	ICI SECRETARY	26.02.24	
								CLIENT NAME:	MIG	SCALES:	AS SHOWN	DWG No.



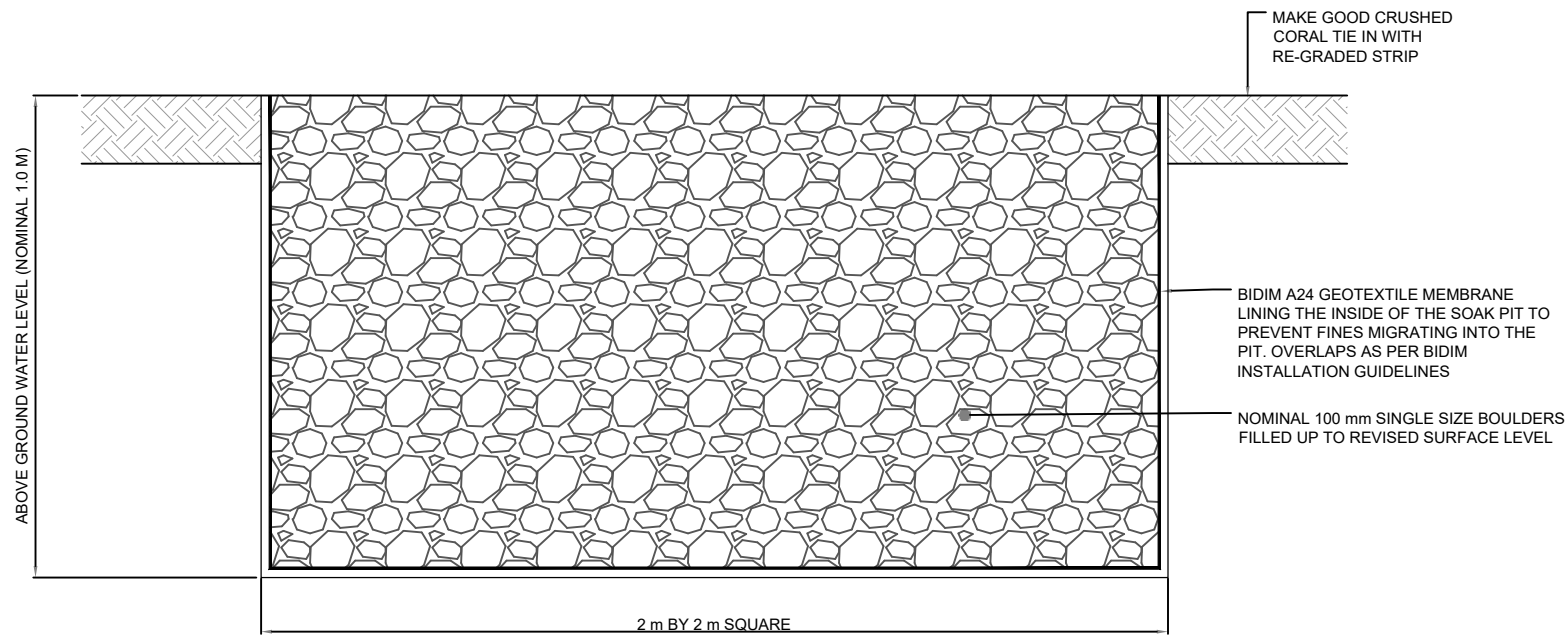


**NOTES:**

1. PAINT MARKINGS TO BE IN ACCORDANCE WITH NZ CAA AC139-6
2. RUNWAY PAINT MARKINGS TO BE WHITE WATERBORNE PAINT UNLESS STATED OTHERWISE
3. PAINT TO BE APPLIED FROM BOTH DIRECTIONS AT 75% OF THE TARGET SPRAY RATE (2.8 SQM PER LITRE).
4. PAINT TO BE APPLIED WHEN WEATHER IS DRY & THE PAVEMENT SURFACE IS AT LEAST 3 DEGREES CELCIUS ABOVE DEW POINT.
5. THE TOLERANCE ON WIDTH OF PAINT LINES SHALL BE +10mm -5mm.
6. ALL MARKINGS TO RECEIVE GLASS BEADS IMMEDIATELY AFTER THE APPLICATION OF PAINT.

**NOT FOR CONSTRUCTION**

REVISION	BY	APPD	DATE	NOTES	PLANNING AND PROJECTS DIVISION	PROJECT TITLE	DESIGNED:	DATE:	CHECKED:	DATE:
					 <b>Infrastructure Cook Islands</b> PO Box 100 Main Road Arorangi Rarotonga, Cook Islands PH: 20321 Fax: 24321 Web: www.icl.gov.ck	<b>MANIHIKI AIRPORT IMPROVEMENT</b>	<b>PPP</b>	<b>20.02.24</b>	<b>PPP</b>	<b>26.02.24</b>
							<b>PPP</b>	<b>20.02.24</b>	<b>IC SECRETARY</b>	<b>26.02.24</b>
						<b>RUNWAY LINE MARKING DETAILS</b>	<b>MIG</b>	<b>AS SHOWN</b>	<b>202401-MHX-CV-2027</b>	<b>S29 OF S30</b>



**SOAK PIT DETAIL**  
Scale 1:10

**NOT FOR CONSTRUCTION**

REVISION	BY	APP'D	DATE	NOTES	PLANNING AND PROJECTS DIVISION	PROJECT TITLE	DESIGNED:	DATE:	CHECKED:	DATE:
					 <b>Infrastructure Cook Islands</b> PO Box 100 Main Road Arorangi Rarotonga, Cook Islands PH: 20321 Fax: 24321 Web: www.icl.gov.ck	<b>MANHIKI AIRPORT IMPROVEMENT</b>	PPP	20.02.24	PPP	26.02.24
							<b>SOAK PIT DETAILS</b>	PPP	20.02.24	ICI SECRETARY
							CLIENT NAME:	SCALES:	DWG No.	SHT No.
							MIG	AS SHOWN	202401-MHX-CV-2028	S30 OF S30